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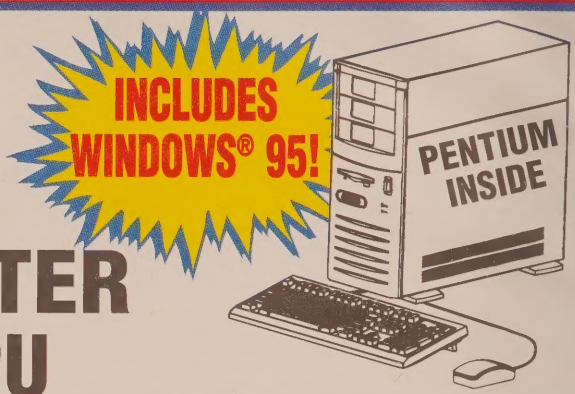

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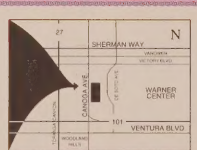

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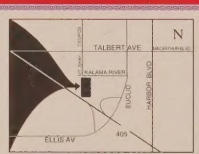

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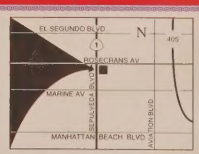

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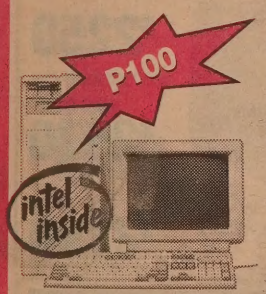

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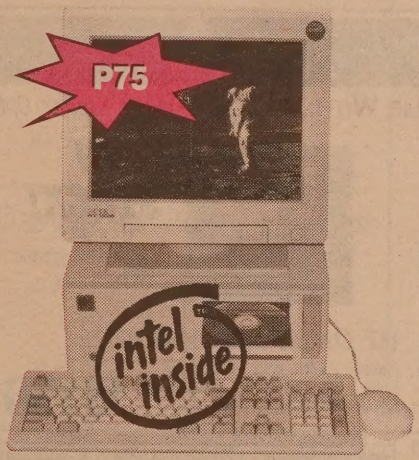

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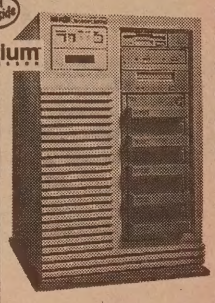

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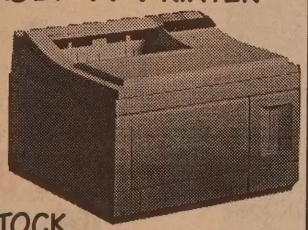

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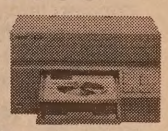

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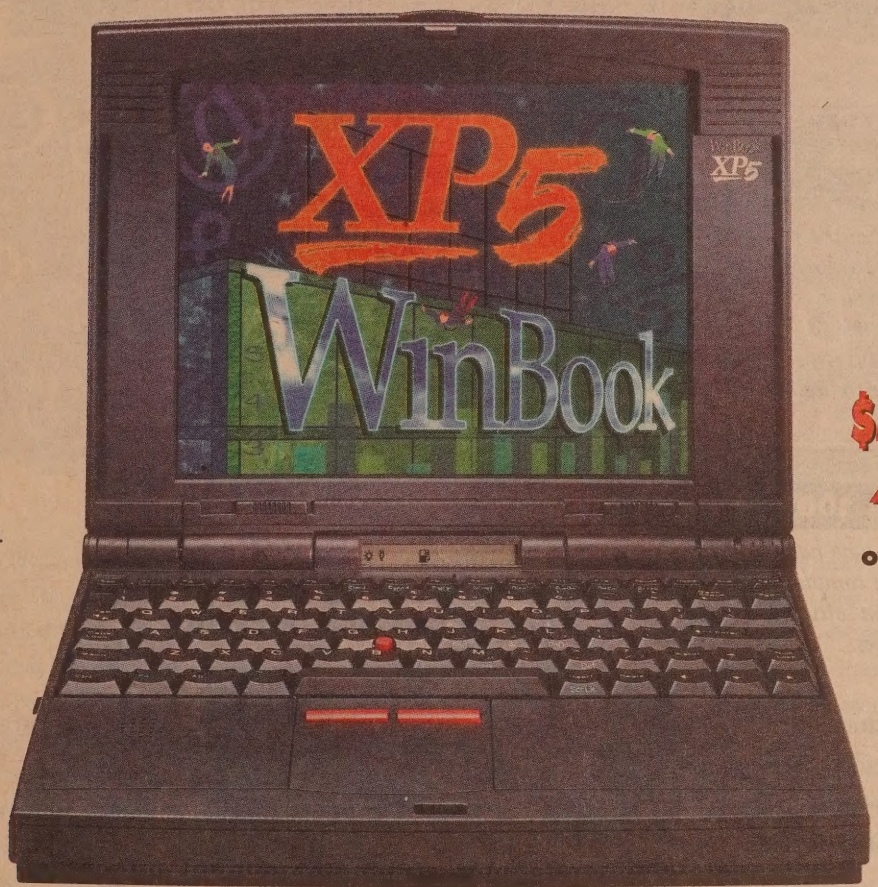

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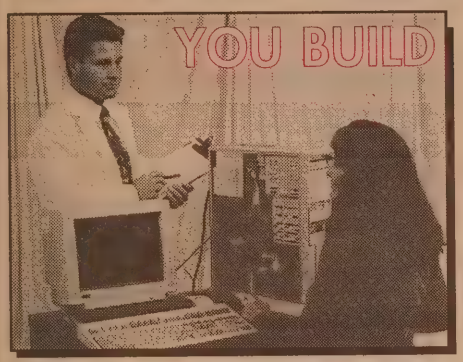

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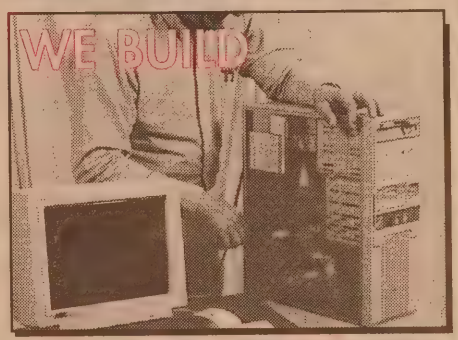

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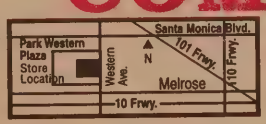

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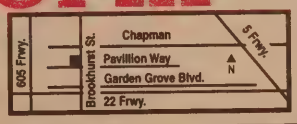

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BY PAUL HOFFMAN

Industry Insights

Less For Free On The Internet: NSF Starts Charging For Domain Names

"Free" is a very attractive word, and many people expound on how wonderful the Internet is because so much of it is free.

Of course, "free" is a relative term, and very little in life is truly free. Everything has cost structures built in, and marketers try to make as much of a product as possible look "free" while hiding the real costs. Television is a great example: watching shows is often thought of as "free," even though you pay for the shows in higher costs of the goods that are advertised on your favorite shows. Further, many people pay a monthly charge for cable that partially supports cable-specific channels.

The Internet is not now, nor has it ever been, free. However, the costs of running the Internet are so difficult to pin down that it is convenient to just set the costs to zero in our minds. The recent announcement that a service that used to be free—obtaining and keeping a domain name—will now cost a small amount has set off many alarms about the end of the "free Internet." In fact, it is just one step towards making real costs of the Internet more visible.

The Internet's domain name system, or DNS, is the method by which you can find computers on the Internet by their names instead of by their numerical addresses. It is important for many reasons, particularly when addresses change, as they often do.

For many years, domain names like "microtimes.com" were handed out freely by the keepers of the DNS, namely the US National Science Foundation. The reason the NSF did this for free was because it was easy and cost almost nothing, so it was probably easier to just do it at no charge instead of coming up with a pricing scheme.

In the past five years, there has been so much hype about commercializing the Internet that many companies decided that they had to "stake a claim." When they discovered that getting a domain name was free, they were even more excited. Thus, the demand for new domain names being issued by the NSF, and then later by their contractor Network Solutions, Inc. (NSI), grew incredibly. People started registering dozens of names just because they could, and also so they could sell the good ones to other people later. It became a mess for the NSF.

In the past five years, there has been so much hype about commercializing the Internet that many companies decided that they had to "stake a claim."

A few years ago, NSF said it might have to change its policy, and last month it did: it started charging for new domain names and for maintaining current ones. The charges are quite small relative to the costs of keeping a connection on the Internet: $50 per year. In announcing the change, the NSF made it very clear that this charge was per domain name, not per mailbox. America Online must pay the $50/year for "aol.com", but none of its members have to pay anything for having a name like "microxnews@aol.com".

Immediately after the announcement, a few people who had mistaken the Internet for free started screaming. A few greedy folks who are much too friendly with their lawyers threatened to sue the NSF and NIS unless they too were allowed to create domains and charge for their use. Others bemoaned the loss of the freedom, ignoring the fact that US taxpayers had been paying for this "free" service all along. What started out as cooperation among many academics and volunteer time from many computer scientists all of a sudden became something that should be given away forever.

Fortunately, not everyone is as oblivious to the hidden costs of the Internet. The not-so-hidden restrictions on bandwidth are becoming

continued on page 204

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REALIZABLE FANTASIES • BY JIM WARREN

Responsive Government The Impossible Dream?

I wonder

when we will have government decision-makers who lead—instead of resist—"the information society"?

Modern Voter Registration

Next year, this state's primary elections will occur in mid-March—a change from the June primaries of the past.

It's time that California's Secretary of State Bill Jones (R-Fresno) made voter registration affidavits available online, so they can be printed, completed, signed, and returned the old-fashioned way—at least until digital-signature standards are adopted as mandated under Debra Bowen's AB 1577 (awaiting Gov. Wilson's signature at press time).

These voter affidavits are the forms that one fills out in order to register to vote.

Jones appears to have the authority to do this under Election Code Section 2161. It says the Secretary of State "shall print or *cause to be printed*" the registration forms [italics added].

Until Congress passed the federal Motor Voter Registration Act, the Secretary of State spent mega-loot to print all registration forms and distribute them to county Registrars of Voters. However, he has already authorized the Department of Motor Vehicles to print forms on their own, perhaps by computer, and there appears to be absolutely no reason he couldn't authorize *anyone* to print fixed-format affidavits, made available from his home-page and by ftp from his Internet host—*secstate.public.ca.gov*—that's been operating for about a year (by publication time, they will probably have opened their new Web page and net site at *ss.ca.gov*).

There's a minor whine that the affidavits are serial-numbered, but (a) the Secretary's site could be programmed to modify the number upon each successive request; (b) the state apparently doesn't use the number anyway; and (c) those county Registrars that want numbers for their internal operations could generate their own numbers—if Jones would permit it.

Send your comments to *comments@ss.ca.gov*, or by fax to Bill Jones at (916)653-4620.

Washingtoontown Zoo

1. I had some momentary delusions of hope when Newt and the "reformers" (or deformers, opinions vary) took over Congress. Like the kids in the White House, Gingrich could actually spell "computer" and mouthed great platitudes about making all Congressional information publicly available in a *timely* manner via the net—a project that was already bumbling forward under those previously in control.

And the system probably *did* become operational a bit more quickly under Newt's whip-hand, even if Newt did name it "Thomas" after his powerful political pal, Bill Thomas (R-Bakersfield).

[The official propaganda says it was named after Thomas Jefferson, but everyone I've talked to in DC understands that it was really an ego payoff for Newt's key supporter. What's worse, Newt took oversight of the system away from Vernon Ehlers (R-Michigan), one of the few members of Congress who has a strong technical background and actually *understands* computers.]

But Newt's *substantive* hypocrisy is that some of the most important legislation in the House—Republican budget bills—is in the hands of favored special interests and political insiders but is *not* available on Thomas in a timely manner, even though it is *highly* time-sensitive due to very limited hearing and debate schedules.

I.e., the Republi-crats are using the same arrogant tactics as the Demo-publicans before 'em. (When folks snarl about the huge national debt run up under Reagan, remember that the

Newt's *substantive* hypocrisy is that some of the most important legislation in the House—Republican budget bills—is in the hands of favored special interests and political insiders but is *not* available on Thomas in a timely manner, even though it is *highly* time-sensitive due to very limited hearing and debate schedules.

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EXPANSION	7 Expansion Slots 8 Drive Bays	7 Expansion Slots 8 Drive Bays	7 Expansion Slots 8 Drive Bays	7 Expansion Slots 8 Drive Bays	7 Expansion Slot 8 Drive Bays	7 Expansion Slot 8 Drive Bays
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MONITOR	14" SVGA Color Non-Interlaced 1024 x 768 .28 dp Tilt & Swivel	14" SVGA Color Non-Interlaced 1024 x 768 .28dp Tilt & Swivel	14" SVGA Color Non-Interlaced 1024 x 768 .28dp Tilt & Swivel	14" SVGA Color Non-Interlaced 1024 x 768 .28dp Tilt & Swivel	15" Digital SVGA Color NI 1280x1024 .28 Tilt and Swivel	15" Digital SVGA Color NI 1280x1024 .28 Tilt and Swivel
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OTHER	Enhanced Hard Floppy Controller 2S, 1P/Game, 9 CD Titles, 101 Space Saver Enhanced Keyboard	Enhanced Hard Floppy Controller 2S, 1P/Game, 9 CD Titles, 101 Space Saver Enhanced Keyboard	Enhanced Hard Floppy Controller 2S, 1P/Game, 9 CD Titles 101 Space Saver Enhanced Keyboard	Enhanced Hard Floppy Controller 2S, 1P/Game, 9 CD Titles 101 Space Saver Enhanced Keyboard	Enhanced Hard Floppy Controller 2S, 1P/Game, 9CD Titles 101 Space Saver Enhanced Keyboard	Enhanced Hard Floppy Controller 2S, 1P/Game, 9CD Titles 101 Space Saver Enhanced Keyboard
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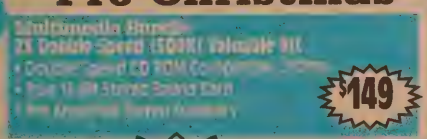

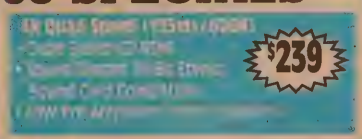

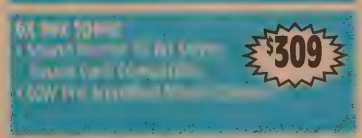

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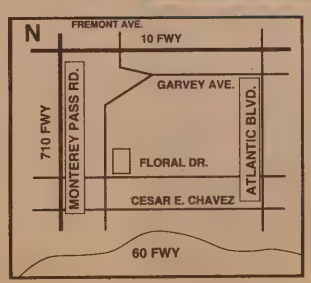

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Fantasies *continued...*

President can only spend what Congress appropriates!)

2. Newt has a pocket nonprofit foundation, the Progress and Freedom Foundation (*pff@aol.com*). PFF hustled big bucks from special-interest donors—mostly Microsoft and telecom giants that have bought "reform" legislation, allowing them to re-create government-supported cartels. PFF used some of that loot to fund August's Aspen Summit on cyberspace policy—at the wealthiest hotel in Colorado's wealthiest playground.

The two-day roundtable pulled together a stellar array of about thirty participants. They also permitted several hundred of the great unwashed to politely observe while the elite palavered (I was among the former).

PFF's Aspen Summit was an *appalling* waste of potent talent. For two entire days, they did *nothing* except exchange vague, philosophical, hand-waving fru-fru, appropriate for some sophomoric dinner chat in a college dorm. Nonetheless, there were some entertaining sound-bites:

It's clearly time to escalate our faxes to congress-critters demanding that we be presumed innocent; that we *not* be required to deposit the keys to our privacy with government agents; and that US software publishers be permitted to distribute, internationally, crypto programs that are at least as strong as those that are already available and in use worldwide.

•"More than information have-nots, we have information *want*-nots." (PFF's Jeff Eisenach)

•"If we don't want government control, we must develop internal controls." And later, "Freedom is a *means*; not an end. The Bill of Rights is not self-executing." (Congressman Vernon Ehlers)

continued on page 196

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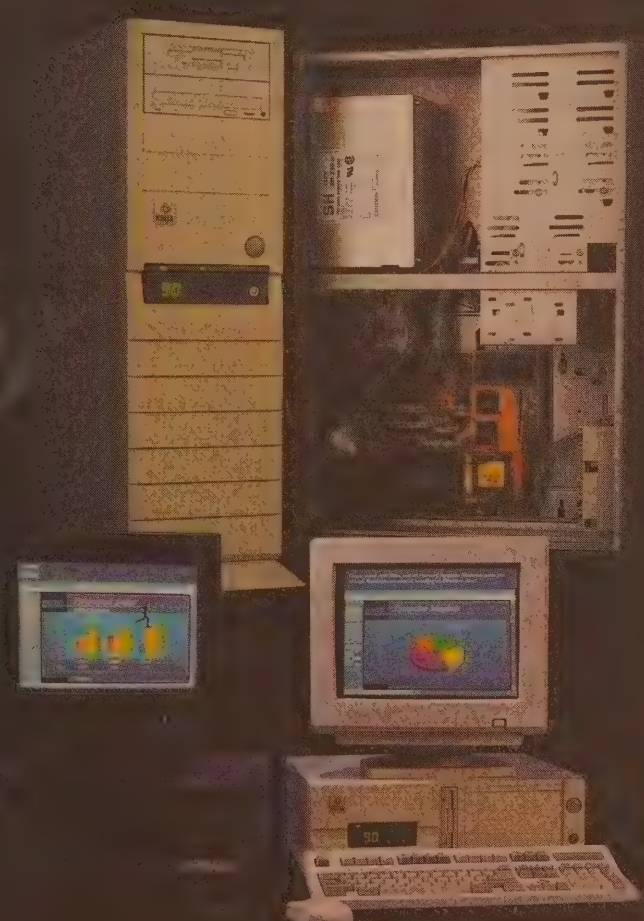

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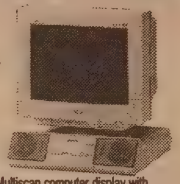

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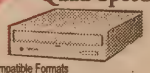

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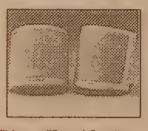

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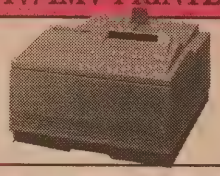

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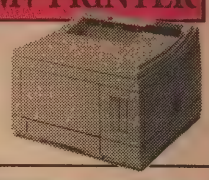

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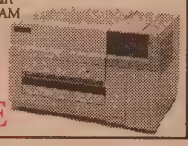

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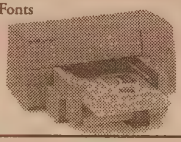

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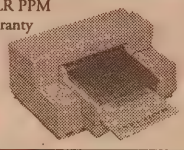

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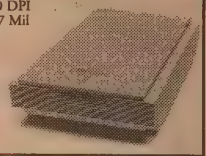

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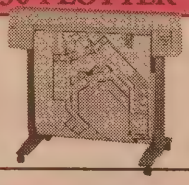

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Letters

Just In Time—Not! Or, The Joys Of Print

I would like to thank you, and particularly Tony Reveaux, for the nice review of my book, *Virtual Reality and the Exploration of Cyberspace*, which appeared in his "Blue Screen VR" column [Issue #140]. I regret to inform you, however, that the book has been out of print for more than a year. The publisher, having sold out the first printing, elected to not reprint this book. The reason given at the time was that they thought that sales were declining, not just for that book but for all their VR titles generally, and that VR was "last year's news."

This was at the same time that the book had just been selected as a Main Fall Selection by Newbridge for their PC User's Book Club. While the book is no longer available through regular retail channels, Newbridge purchased a few thousand copies for resale and may still have some left. I have only a few extra copies left myself. I should also add that DIASPAR Virtual Reality Network has, for the moment, ceased operations, so that part of the software on the included disk is essentially worthless at this point.

Naturally, since I spent thirty months writing this book, I was not happy to see it go out of print after thirteen months, but the fact that it did says as much about the fragility of such information as it does about modern book publishing. The product/life cycle of traditional book publishing is such that, in some regards, the book was obsolete the day it was published. Indeed, VR as a field has moved so fast that I have decided that not even a second edition is a viable possibility at this point. I would have to start fresh on a completely new book. To date, no publisher has been willing to give me the considerable advance that I would need to do this. This does not mean that the book is completely without value. Much of the information is basic, historical, and conceptual to the field—it will never go out of date.

Electronic forms of publishing beckon, but there seems to be no way to get paid for the work—especially the constant updating that would have to be done to keep the information current. Such work is labor intensive, and while the book was well received, it was not widely reviewed. Had your review come within six months of publication it might have helped keep the book in print. But, as I said, I appreciate the review.

Francis Hamit
North Hollywood

What Happened To The Personal Computer?

I have just finished reading several articles in Issue #141 of *MicroTimes* and they have reminded me of some of my gripes.

Somewhere the industry has forgotten what the PC is. It is a Personal Computer for personal computing and personal use. They have forgotten that most of the computers are sold for home use and shortly consigned to the closet because of the useless complexity and cost of the software.

I have owned a computer since the first TRS 80 Model 1 came out and one or two home-brew ones before that. Our office loaded up with IBMs when they came out and I have used WordPerfect since v3. With spreadsheets I started out on VisiCalc; the first database I used was a cassette tape one for the TRS 80. The first word processor I used was Electric Pencil, then Scripsit, both on cassette tape.

Today I use WordPerfect 6.0a for Windows and I only use about 2% of its capabilities. Why can't WordPerfect make a good, small word processor without all the frills, and if you want the frills let you purchase them separately as add-ons? They included Grammatik, something I never use, but I sure could use a good disk version of Merriam-Webster's *Collegiate Dictionary*. I need all those fonts, templates, and a number of other features like I need a sore toe. I just wish they would clean up some of the bugs in their old 4.2, and I would gladly go back to DOS.

I plan to stay as far away from Windows 95 as possible for as long as possible. The only reason that I went to Windows 3.1 was because I was forced to by the software. If I could find good software for DOS that was kept up to date with modern drivers I wouldn't touch Windows. I would still be using Lotus 1-2-3 v1a if I could get drivers for my printers. Version 2 was terrible and the Windows version even worse.

Most of the Internet is great, but after trying WWW for a couple of months I have decided to put it on the same garage shelf with my pet rock and hula hoop.

Multimedia is great for CD-ROMs such as encyclopedias, but as far as video goes, it stinks. Who wants to watch video on a computer anyway? That is what I have a 52" TV for. Who needs stereo sound on a computer? Terrible place to listen to music.

I am afraid that if the direction doesn't change and soon, that when my present equipment becomes obsolete I will just chuck it and go back to my typewriter and maybe my old fountain pen and pencil.

Tom Ferris
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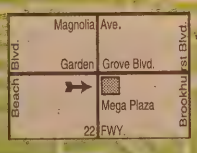

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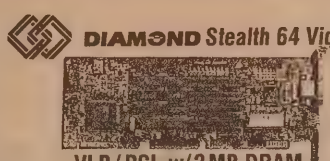

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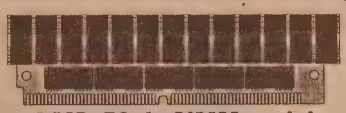

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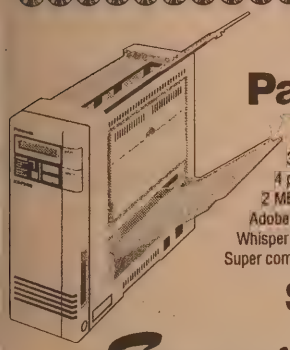

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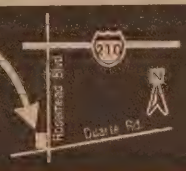

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UNIX • BY BENNETT FALK

The Meaning Of Owning UNIX

The Latest Change In Ownership

On September 20, 1995, Novell, The Santa Cruz Operation, and Hewlett-Packard announced an agreement that would transfer ownership of UNIX from Novell to SCO.

UNIX is a big deal, **a $26 billion industry** in 1994, and that gives this **arrangement the aura** of meaningfulness.

The facts surrounding this agreement are roughly as follows. Novell will get up to $84 million in revenue over the next seven years and a 17% stake in SCO, amounting to roughly 6.1 million shares of SCO stock. SCO was traded at about $11.50 per share and promptly fell to $9.75 when the arrangement was announced.

SCO will own Novell's UnixWare product, a UNIX implementation for Intel-based hardware that competes with SCO's OpenServer. SCO has published a product roadmap that describes how these products will be merged into one by 1998.

SCO will also take over Novell's UNIX intellectual property and responsibility for further UNIX development.

Hewlett-Packard's role in the new arrangement is to manage the effort to develop a standard 64-bit implementation of UNIX.

Novell will license its network services for future UNIX development.

UNIX is a big deal, a $26 billion industry in 1994, and that gives this arrangement the aura of meaningfulness. The problem is how to resolve this hazy aura into something we can actually think about. There are, of course, several candidates competing to be the meaning of this sale. Feel free to chose your favorite.

Meaning #1: The Official Interpretation

Naturally the presentation of this new arrangement included a summary of its significance. The three companies involved intend to deliver a "high-volume UNIX operating system with Network and Enterprise services." UNIX customers will be offered "a single UNIX with a reliable and easy migration path to 64-bit network computing." The new alliance is a "significant step forward for UNIX competitiveness" and will set a standard for a new generation of network services.

Meaning #2: UNIX Is Dead

No one really knows what this means, but it's a fashionable thing to say. See Meanings 5 through 7 below.

Meaning #3: Time (or Something) Heals All Wounds

In the '80s when Sun and AT&T agreed to collaborate on the further development of UNIX, there was a massive hue and cry from other UNIX vendors that the two companies would produce a version of UNIX that favored Sun hardware.

Now HP seems to be taking a similar role in UNIX development, but there will be no outcry over HP's role in developing the standard 64-bit UNIX implementation.

In late 1992 and 1993, when AT&T negotiated the sale of UNIX to Novell, it also undertook a transfer of the UNIX trademark and interface definition to X/Open, a "vendor neutral" consortium. This transfer was finally completed by Novell in 1994.

X/Open now administers a UNIX interface definition known as the Single UNIX Specification and the UNIX trademark. In order to use the UNIX trademark, a vendor's product must be verified to comply with the specification. This "branding" process is handled by X/Open, not Novell.

These days the right to call something UNIX is won by demonstrating compliance with the specification, not by building a system on the source code owned by AT&T, Novell, and now SCO. (Building on that source code may be the easiest way to comply with the specification, but it's certainly not the only way.)

Meaning #4: Diminishing Returns

AT&T invented UNIX and owned it for roughly twenty-three years before selling it to Novell in 1993. Novell bought AT&T's UNIX technology and source code for $350 million. As noted above, Novell did not buy all the UNIX rights AT&T had. Novell purchased UNIX technology and the source code while the UNIX trademark and interface definition went to X/Open.

Less than three years later, it is selling UNIX

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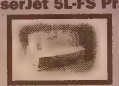

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for a lot less than $350 million: $84 million revenues and roughly $60 million in stock. Apparently, without the trademark and interface definition, owning UNIX is just not as much fun as it used to be.

The price has fallen, but in some respects, Novell is selling SCO less than it purchased from AT&T. In 1994, Novell collected a "lifetime license" fee of roughly $80 million from Sun. What's not clear in the new arrangement is who, among the companies licensing UNIX, will be obligated to pay license fees to SCO. SunSoft, which distributes more run-time UNIX licenses than any other vendor, seems to be off the hook.

Meaning #5: The UNIX Chain Letter

Sometime in 1998 I expect to receive a letter with instructions to send a check to the address at the top of the list. I will add my address at the bottom of the list, mail the check, and send the letter to three of my closest friends.

Sixty days later the UNIX source code, a flock of engineers, and possibly several checks from future owners of UNIX will show up on my doorstep. I am, of course, counting on the principle of diminishing returns (see #4 above). UNIX will be out of reach if it costs more than a few thousand dollars when my name gets to the top of the list.

Meaning #6: UNIX Is Not Linux (Yet)

The continued technical evolution of UNIX has basically become a matter of porting the operating system to CPU architectures with ever larger addresses. The current standard is a 32-bit system. The deal between Novell, SCO, and HP looks forward to a 64-bit version, and sooner or later there will be a 128-bit UNIX implementation. (Indeed, the major challenge of the 64-bit implementation is not to do anything that would interfere with porting the system to some hypothetical 128-bit architecture.)

Since the UNIX Wars of the '80s, the official UNIX development effort has gotten terribly conservative, more or less at the insistence of the licensees. Too much money ($21 billion in 1993, $26 billion in 1994) has been spent on UNIX to allow it to change radically.

So much depends on maintaining continuity between one version of UNIX and the next that whoever happens to "own UNIX development" will not be particularly free to innovate (whatever their natural inclinations might be).

The creative soul of the UNIX community isn't dead, it just comes to expression well outside the mainstream in, for example, the evolution of Linux, a UNIX clone that has no dependencies on the intellectual property SCO now owns.

Ultimately, however, this creativity will not be denied. Sooner or later Linus Torvalds' name will get to the top of the list in the UNIX chain letter.

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NodeRunner*SI* 2000 ISA 16-bit	79.00
NodeRunner*SI* 2000/A ISA 16 Combo	109.00

HEWLETT PACKARD

HP JetDirect 16-bit Ethernet Coax or 10TP	349.00
HP JetDirect 16-bit Ethernet Combo	419.00

intel CARD ONLY w/o Manuals

EtherExpress 16 16-bit Coax	79.00
EtherExpress 16 16-bit 10 Base T	109.00
EtherExpress 16 ISA 16-bit Combo	129.00
EtherExpress 16 ISA Flash	129.00
EtherExpress 16 PRO/10 16-bit TP	99.00
EtherExpress 16 PRO/10 16-bit *Combo*	99.00
EtherExpress 16 PRO/10 Flash	119.00
EtherExpress 16 PRO/10 Flash Combo	129.00

Ethernet 10 Base-T / Coax	
EtherExpress 16 ISA 16-bit	109.00
EtherExpress 16 ISA 16-bit Combo	139.00
EtherExpress 16 PRO/10 16 Bit TP	99.00
EtherExpress 16 PRO/10 16 Bit Combo	139.00
EtherExpress 16 PRO/10 Flash	139.00
EtherExpress PRO *10/100* PCI	239.00
EtherExpress PRO 10/100 EISA	289.00
EtherExpress 16 ISA Flash	125.00
EtherExpress 16 MCA 32-bit	189.00

NOVELL EAGLE/MICRODYNE

Ethernet 10 Base-T / Coax	
NE2000 Plus ISA 16-bit	99.00
NE2000 Plus -3 ISA 16-bit Combo	109.00
NE5500 PCI 32-bit 10 TP & Coax	169.00
NE/2C MCA	265.00
NE3210 EISA 32-bit (New Version)	159.00

SMC CARD ONLY w/o Manuals

Elite 16-Ultra ISA 16-bit Coax or 10 TP	99.00
Elite 16-Ultra ISA Combo	119.00
EtherPower PCI 10 TP & Coax	179.00
EtherPower PCI 10 /100 TP	229.00

Ethernet 10 Base-T / Coax	
EtherEZ Plug & Play 16-bit Combo	109.00
Elite 16-Ultra ISA 16-bit	99.00
Elite 16-Ultra ISA Combo (RJ45/BNC)	115.00
Elite 32-Ultra EISA Combo(RJ45/BNC)	239.00
EtherPower PCI 10 TP	149.00
EtherPower PCI 10 TP & Coax Combo	189.00
EtherPower PCI 10/100 TP	239.00

NETWORK CARD-100 Mbps

3COM

3COM Fast EtherLink PCI *10/100* TP	259.00
3C595-TX Fast Etherlink PCI *10/100* Card Only	189.00

ADDTRON

ProFast Ethernet PCI *100* TP	169.00

intel

EtherExpress Pro *10/100* PCI TP	239.00
EtherExpress Pro *10/100* EISA TP	289.00

National Semiconductor

InfoMover*ISA* *10/100* TP	199.00

SMC

EtherPower PCI *10/100* TP	239.00
EtherPower EISA *10/100* TP	289.00

NETWORK FAST-100 HUB

3COM

12 Port *LinkBuilder* FMS 100 TP Hub	1,899.00

ADDTRON

8 Port 100 Base T *External* Hub	1,299.00

COGENT DATA TECHNOLOGY

4 Port *PCI 100* Base T *Internal* Hub	1,289.00

NETWORTH

8 Port *Fast 100* Base T *External* Hub	1,399.00

SMC

16 Port *Fast 100* Base T *External* Hub	3,299.00

FAST SWITCH 10/100 HUB

3COM

LinkSwitch1000 24 Ports TP & 1 Port 100 TP	3,299.00
100B-FX Fiber Downlink Module	959.00

NETWORTH

FastPipes Switch 6 Port 10TP w/1 Slot 100 TP	3,599.00
FastPipes Switch 12 Port 10TP w/1 Slot 100 TP	6,199.00
FastPipes 100 Base TX Module For Switch Hub	899.00

NETWORK SOFTWARES

Microsoft

Windows for Workgroup DOS Add-On	48.00
Windows for Workgroup WINDOW Add-On	49.00
Window 95 Single Server	219.00
Windows NT Server V3.51	699.00
Windows NT Server V3.51/10 User Wk	1,099.00
Windows NT Workstation V3.51	329.00

Artisoft - LANtastic

Lantastic for OS / 2 1 User	99.00
Lantastic for OS / 2 5 Users	459.00
Lantastic 6.0 1 User	69.00
Lantastic 6.0 5 Users	349.00
Lantastic 6.0 10 Users	649.00
Lantastic 6.0 25 Users	1,299.00
Lantastic 6.0 1 User Upgrades	38.00
Lantastic 6.0 5 Users Upgrades	99.00
Lantastic 6.0 10 Users Upgrades	145.00
Lantastic 6.0 1 User Add-On Kit	129.00
Lantastic 6.0 2 Users Starter Kit	249.00

IBM - OS/2

OS/2 Warp V3.0	79.00
OS/2 Warp V3.0 w/Windows	139.00
OS/2 Warp Connect V3.0	169.00
OS/2 Warp Connect V3.0 w/Windows	199.00
OS/2 Lan Server Entry V4.0	589.00
OS/2 Lan Server Advanced V4.0	1,699.00

NOVELL

NetWare 3.12 or 4.1 5 Users *(OEM)*	389.00
NetWare 3.12 or 4.1 10 Users *(OEM)*	939.00
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NetWare 3.12 or 4.1 50 Users *(OEM)*	1,389.00
NetWare 3.12 or 4.1 5 Users	589.00
NetWare 3.12 or 4.1 10 Users	1,299.00
NetWare 3.12 or 4.1 25 Users	1,999.00
NetWare 3.12 or 4.1 50 Users	2,999.00

** All Netware OEM Softwares Must be Purchased With Any Network Cards or Network Hubs **

Novell NetWare UPGRADES	CALL !!
Personal Netware v1.0 (Dos & Windows)	75.00
Novell Netware 3.12 or 4.X Manuals	199.00

NOVELL File Server Install

In-House Generate File Server $299
For Novell Netware 3.12 or 4.1

ON-SITE SERVICE CONTRACT

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20 HOURS(One Year,Novell Engineer)	1,400.00
30 HOURS(One Year,Novell Engineer)	1,950.00

NETWORK HUBS

3COM

LinkBuilder TP/8 Port Hub	199.00
LinkBuilder TP/ 12 Port Hub	369.00
LinkBuilder 12 Port Hub (3C621)	759.00
LinkBuilder FMS II 12 Port	649.00
LinkBuilder FMS II 12 Port Mgmt	995.00

ADDTRON

4 Port Arcnet Passive Hub	15.00
8 Port Arcnet Coax Active Hub	125.00
8 Port Arcnet Twisted Pair Active Hub	135.00
8 Port Ethernet 10 TP & 1 BNC Hub	139.00
16 Port Ethernet 10 TP & 1 BNC Hub	269.00

ASANTÉ

ASANTE Hub 8 TP Port Hub	199.00
ASANTE Hub 12 TP Port Hub	399.00

HEWLETT PACKARD

AdvancedStack 12 2600A	789.00
AdvancedStack 24 2601A	1,195.00
8 Port EtherTwist	359.00

SMC

TigerHub TP6 6 Port 10 TP Hub	199.00
TigerHub TP12 12 Port 10 TP Hub	399.00
TigerStack(3312TC)12 Port 10 TP Hub	599.00
TigerStack(3326TC)24 Port 10 TP Hub	999.00
TigerHub CX3 3 Port Ethernet Coax Hub	339.00
TigerHub CX6 6 Port Ethernet Coax Hub	659.00
TigerHub FL6 6 Dual Fiber/AUI/1BNC	1,489.00

SynOptics

16 Port 2800 Hub(16 RJ45/ 1 AUI)	599.00
16 Port 2804 Hub(16 RJ45/1 FOIRL)	899.00
8 Port 800 Hub(Plug & Play)(8 RJ45)	289.00
8 Port 810M Mgm. Hub (Plug & Play)	639.00

NETWORK FAX SERVER

CHEYENNE

FAXServer V3.0 NLM 5 User	399.00
FAXServer V3.0 NLM 10 Users	699.00

DELRINA TECHNOLOGY

WinFax Pro for Network Server V4.0	139.00
WinFax Pro for Network V4.0 10 Users	699.00
Net SatisFaxtion V3.0 25 Users	899.00
Net SatisFaxtion 400 Internal Modem	349.00

US Robotics

USR Fax Server v1.0	1,999.00

NETWORK REMOTE ACCESS

Microdyne

LX-2 Lan Expander 2 Port Remote Control	799.00

US Robotics

Communication Server 19.2 Ext	1,699.00

Xircom

Net Access Modem 4-Port	1,999.00

NETWORK ISDN

3COM

3Com Impact (PC)	479.00

MOTOROLA

ISDN BitSurfer	399.00

TELEBIT

NetBlazer LS ISDN	1,299.00
NetBlazer LS 2-Port	1,199.00

NETWORK ROUTERS

3COM

NetBuilder Remote Office	1,789.00

DIGITAL EQUIPMENT CORP.

BRouter 90Ti Router	2,499.00

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Ethernet Router w/SNMP	5,539.00

NOTEBOOK ETHERNETS

(Notebook Parallel Port / PCMCIA)

3Com Etherlink IIIB *PCMCIA* 10 TP	169.00
Etherlink IIIB *PCMCIA* Combo	219.00
3Com Etherlink III *PCMCIA 10 TP + Modem*	499.00
Addtron *PCMCIA* 10 TP & Coax Combo	139.00
Novell NE4200 *PCMCIA* Combo	199.00
GT Pocket Ethernet 10 TP & Coax Combo	149.00
SMC EtherNote Pocket 10 TP & Coax	239.00
SMC Elite *PCMCIA* 10 TP	139.00
SMC Elite *PCMCIA* 10 TP & Coax Combo	199.00
Xircom Pocket Ethernet 10 TP	289.00
Xircom Pocket Ethernet 10 TP & Coax	319.00
Xircom *PCMCIA* IIPS 10 TP	199.00
Xircom *PCMCIA* IIPS 10 TP & Coax Combo	249.00

FILE SERVER HARD DRIVE

CONNER

1.2GB IDE	289.00
1.08GB SCSI-II	399.00
2.0GB SCSI-II	759.00
2.0GB Wide SCSI-II	1,069.00
4.0GB SCSI-II	1,249.00
4.0GB Wide SCSI-II	1,499.00

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1.2GB IDE	289.00
1.08GB SCSI-II	399.00

IBM

1.0GB SCSI-II	329.00

Maxtor

850MB IDE	219.00
1.2GB IDE	289.00

Quantum

4.0GB SCSI-II	1,199.00

Seagate

9.0GB [ST41008N] SCSI-II	2,299.00

SCSI-II CONTROLLERS

Adaptec

Adaptec SCSI-II CARD Only

AHA-1522A 16 Bit SCSI Adapter Only	69.00
AHA-1542CF 16 Bit SCSI-II Adapter Only	169.00
AHA-2742A EISA SCSI-II Adapter Only	229.00
AHA-2940 PCI SCSI-II Adapter Only	189.00
AHA-2940W PCI Wide SCSI-II Adapter Only	229.00
AHA-1522AK ISA Adapter w/ Kit	139.00
AHA-1542CF ISA BUS Adapter w/ Kit	259.00
AHA-2742AT EISA Adapter w/ Kit	379.00
AHA-2940 PCI Adapter w/ Kit	279.00
AHA-2940W Wide PCI Adapter w/ Kit	379.00
External Mini SCSI Adapter for Parallel	199.00
External SlimSCSI Adapter for PCMCIA	239.00

NETWORK 6X CD ROM

NEC

NEC 6X Internal SCSI-II CD Rom	389.00
NEC 6X External SCSI-II CD Rom	489.00

PLEXTOR

Plextor 6X Internal SCSI-II CD Rom	559.00

TEAC

TEAC 6X Internal IDE CD Rom	299.00
TEAC 6X External IDE CD ROM	399.00

NETWORK TOWER CD

NEC

4X/ 4-Drives SCSI-II Tower CD Rom	2,099.00

PLEXTOR

4X Ext. 4-Drives SCSI-II Tower CD Rom	2,799.00
4X Ext. 7-Drives SCSI-II Tower CD Rom	4,799.00
6X Ext. 4-Drives SCSI-II Tower CD Rom	3,299.00
6X Ext. 7-Drives SCSI-II Tower CD Rom	5,899.00

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PINNACLE MICRO

RCD-1000PCI Int. 680MB w/CRTL	1,499.00
RCD-1000PCN Ext. 680MB w/o CRTL	1,499.00

HEWLETT PACKARD

SureStore CD-Writer 650MB w/CRTL	1,099.00

NETWORK CD CHANGER

PIONEER

External 6-Disc SCSI-II CD Changer	699.00
External 18-Disc SCSI-II CD Changer	2,399.00

REWRITABLE OPTICAL DR.

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1300T EXT.1.3GB Rewritable Optical Dr.	2,499.00
20XT EXT. 20.0GB Rewritable Optical Dr.	5,199.00
1.3GB Rewritable Optical Disk	109.00

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Sierra EXT. 1.3GB Rewritable Optical Dr.	1,799.00
1.2GB 1024K Optical Disk	189.00

NETWORK CABLES/TOOLS

Cables w/Connectors	
Every 25 Ft. RG58A/U Coaxial Cable	8.00
Every 25 Ft. 10 Base-T (Level 5)	15.00
Connectors	
50 Ohm BNC Terminator (Thin Ethernet)	2.00
T-Connector	2.00
RJ-45 Connector	.89
Tools	
BNC Crimping Tool	25.00
RJ-45 / RJ-11 Crimping Tool	29.00
RG-58 / 62 Wire Stripper	25.00

NETWORK PRINT SERVER

NOVELL EAGLE

Eagle NPE400 Ethernet Combo	369.00

HEWLETT PACKARD

HP JetDirect EX (J2382B) BNC & TP	399.00

intel

Intel NetPort II Ethernet (TP/Coax)	399.00
Intel NetPort Express EL Ethernet Combo	399.00
Intel NetPort Express XL Ethernet Combo	469.00

Xircom

Pocket Ethernet Print Server TP/Coax	329.00

NETWARE CONNECT

NOVELL

Novell Netware Connect 2 Users	439.00
Novell Netware Connect 8 Users	1,595.00
Novell Netware Connect 32 Users	4,395.00

DIGIBOARD

2 Port for Windows	195.00
PC/4E w/ Conn	459.00
PC/8E w/ Conn	595.00
PC/16EM System	995.00
EISA C/16 w/ Conn	1,449.00
ISA EPC/16 16 Port Multiport w/ Conn	1,895.00

NETWORK UPS SYSTEM

APC

Back UPS System 600	299.00
Back UPS System 900	415.00
Smart UPS System 600	409.00
Smart UPS System 900	559.00
Smart UPS System 1250	699.00
Power Chute Plus Software for Novell	79.00
Power Chute Plus Software for Window NT	79.00

TRIPP-LITE

BC Pro 675 UPS System Lan	289.00
Omni 600 UPS System Lan	359.00
Omni 750 UPS System Lan	399.00
Omni 900 UPS System Lan	499.00
Power Alert Software for Novell	75.00
Power Alert Software for Window NT	69.00

NETWORK REPEATERS

ADDTRON

5 Port (2 BNC/ 2 RJ-45 /1 AUI) Repeater	209.00

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ENET Trans 10 Base T to AUI	49.00
ENET Trans BNC Coax to AUI	49.00

NETWORK BACKUP DRIVE

CHEYENNE

ArcServe / Solo 1 User	149.00
ArcServe Window NT V2.0	899.00
ArcServe NLM Dos V4.02 5 Users	269.00
ArcServe NLM Window V5.01 5 User	269.00
ArcServe NLM Window V5.01 10 User	529.00

EXABYTE

1-2GB Int. 4mm DAT Drive[EXB-4200I]	899.00
1-2GB Ext.4mm DAT Drive[EXB-4200E]	1,099.00
2-4GB Int. 4mm DAT Drive[EXB-4200CI]	999.00
2-4GB Int. 4mm DAT Drive[EXB-4200CE]	1,199.00

CONNER

TapeStor 850MB Int. IDE Tape Drive	299.00
TapeStor 850MB Ext. IDE Tape Drive	459.00
TapeStor 1.7GB Int. IDE Tape Drive	369.00
Python *1-2GB* SCSI Int. DAT Tape Dr.	899.00
Python *1-2GB* SCSI Ext. DAT Tape Dr.	1,099.00
Python Turbo *2-4GB* SCSI Int. DAT Dr.	999.00
Python Turbo *2-4GB* SCSI Ext.DAT Dr.	1,199.00
DAT *4-8GB* Int. SCSI Tape Dr.	1,299.00
DAT *4-8GB* Ext. SCSI Tape Dr.	1,399.00
CS 16.0GB *AutoLoader* 4 LDAT Int.DAT	2,699.00
CS 48.0GB *AutoLoader* 12 LDAT Ext.DAT	5,299.00
BackUp Software for Novell Server & 25 Users	329.00
BackUp Software for Novell Server & Enterprise	899.00
Backup Software for Novell Workstation	109.00
BackUp Software for Windows NT Server	559.00

HEWLETT PACKARD

SureStore *1-2GB* SCSI Int.DAT Drive	999.00
SureStore *1-2GB* SCSI Ext.DAT Drive	1,199.00
SureStore *2-4GB* SCSI Int.DAT Drive	1,179.00
SureStore *2-4GB* SCSI Ext.DAT Drive	1,399.00
SureStore *4-8GB* SCSI Int. DAT Drive	1,379.00
SureStore *4-8GB* SCSI Ext.DAT Drive	1,499.00
SureStore 48.0GB *Autoloader* Ext. DAT	3,199.00

PENTIUM + SERVERs

PENTIUM-133	$1,699.00
PENTIUM-120	$1,499.00
PENTIUM-100	$1,399.00
PENTIUM-90	$1,349.00
PENTIUM-75	$1,269.00

*8MB, 540MB HD,1.44 Floppy Drive,
* Monochrome Card & Monitor, Keyboard,
*32 Bit PCI Ethernet Network Card.

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HP PENTIUM NETSERVER

LH-P100 w/32MB (D3356A)	$6,699.00
LH-P 75 w/16MB (D3353A)	$4,999.00
LC- P 66 w/16MB (D3314A)	$2,699.00
LM-P 66 w/16MB (D2993A)	$5,199.00
LM-P 90 w/16MB (D2997A)	$5,999.00

*HP LH Model Netserver w/CD ROM
*HP Pentium Netserver W/O HD
*NetServer HD is Optional

NOVELL

BSI WORKSTATIONs

486 DX4-120	$779.00
486DX4-100	$659.00
486DX2-80	$629.00
486DX2-66	$599.00
386DX-40	$529.00

* 4MB, 1.44 Floppy Drive, Monochrome Card & Monitor
* 16 bit Ethernet Coax & 10 Base T Combo Card
(Novell Certified Network Card)

NOVELL

PENTIUM + SYSTEM

PENTIUM-133	$1,869.00
PENTIUM-120	$1,669.00
PENTIUM-100	$1,569.00
PENTIUM-90	$1,509.00
PENTIUM-75	$1,429.00

* 8MB, 850 MB HD, 1.44 Floppy Drive
* Build-In FAST IDE w/ I/O Card
* Diamond PCI Super VGA Card w/ 1MB
*14" Super VGA Non-Interlaced Monitor
* Mouse w/ Pad, Keyboard

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PENTIUM CD SYSTEM

PENTIUM-133	$2,149.00
PENTIUM-120	$1,949.00
PENTIUM-100	$1,849.00
PENTIUM-90	$1,789.00
PENTIUM-75	$1,709.00

*8MB, 850MB HD, 1.44 Floppy Drive,
* 14" Super VGA Non-Interlaced Monitor
* Mouse w/Pad, Keyboard,PCI SVGA
* 4X CD Rom & Speakers & CD Titles
*Creative Lab 16 Bit MCD Sound Card

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Designed for Microsoft Windows 95

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1

486 PCI MultiMedia Station
8MB/540MB/4xCD

- 486DX4-100 MHz
- 256K Cache
- **8MB** RAM/**540MB** IDE Hard Drive
- Teac 1.44MB Floppy Drive
- PCI IDE FD/HD Controller (High Speed)
- Cirrus Logic W/1MB
- 15" SVGA Monitor N-1 (1280x1024, .28dpi, Digital Control)
- 101 Keyboard, 3-Button Mouse
- Medium Tower Case
- 4X CD-ROM
- **Sound Blaster 16** Sound Card
- Surround Sound Speakers (115 Watt PMPO)
- MicroSoft Encarta, MS Works, MS Money

INTEL 486DX-4 100MHz $1369
AMD 486DX-4 100MHz $1289
Option: Windows 95 CD add $89

2

Best Buy w/Internet Ready

Pentium MultiMedia Station
INTEL Triton Chipset
16MB/850MB/4xCD

- P-90/100/120/133 MHz
- 256K Cache
- **16MB** RAM/**850MB** Hard Drive
- Teac 1.44MB Floppy Drive
- PCI IDE FD/HD Controller
- PCI Diamond Stealth W/2 MB
- 15" Digital Control SVGA Monitor N-1(1280x1024, .26dpi)
- 101 Keyboard, 3-Button Mouse
- Medium Tower Case
- 4x CD-ROM
- **Sound Blaster 16** Sound Card
- Surround Sound Speakers (115 Watt PMPO)
- MicroSoft Encarta, MS Works, MS Money
- 14.4 Fax Modem

Pentium 90MHz 4xCD $1949
Pentium 100MHz 4xCD $2019
Pentium 120MHz 4xCD $2199
Pentium 133MHz 4xCD $2339
Option: Windows 95 CD add $89

3

Pentium Triton Chipset
8MB/540MB/15"

- P-75/90/100/120 MHz
- 256K Cache
- **8MB RAM**
- **540MB HD**
- Teac 1.44MB Floppy Drive
- PCI Enhanced FD/HD CTR
- PCI Diamond Stealth W/2 MB
- 15"SVGA Monitor N-1 (1280x1024, .28dpi, Digital Control)
- 101 Keyboard, 3-Button Mouse
- Medium Tower Case

Pentium 75MHz $1279
Pentium 90MHz $1339
Pentium 100MHz $1409
Pentium 120MHz $1589
Option: Windows 95 CD add $89

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COMPUTER, INC.

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Fax: (818) 582-8949
E Mail:
IMPACTCO @ PRIMENET.COM

LOMPOC Office:
713 Coleman Dr.
Lompoc, CA 93435
Tel: (805) 736-5995

NETWORK CONFIGURATION AVAILABLE

4

Pentium MultiMedia Station
INTEL Triton Chipset
8MB/540MB/15"/4xCD

- P-75/90/100/120/133 MHz • 256K Cache
- **8MB** RAM/**540MB** IDE Hard Drive
- Teac 1.44MB Floppy Drive
- PCI IDE Enhanced FD/HD Controller High Speed
- PCI Diamond Stealth W/2 MB
- 15" SVGA Monitor N-1 (1280x1024, .28dpi, Digital Control)
- 101 Keyboard, 3-Button Mouse
- Medium Tower Case
- **Sound Blaster 16** Sound Card
- Surround Sound Speakers (115 Watt PMPO)
- MicroSoft Encarta, MS Works, MS Money, MS CD-Sampler

Pentium 75MHz 4xCD $1509
Pentium 90MHz 4xCD $1589
Pentium100MHz 4xCD $1659
Pentium120MHz 4xCD $1839
Pentium133MHz 4xCD $1979
Option: Windows 95 CD add $89

5

Pentium Station
INTEL Triton Chipset
16MB/850MB/15"/4XCD

- P-75/90/100/120/133 MHz
- 256K Cache
- **16MB** RAM/**850MB** IDE Hard Drive
- Teac 1.44MB Floppy Drive
- PCI IDE Enhanced FD/HD Controller
- PCI Diamond Stealth W/2 MB
- 15" SVGA Monitor N-1 (1280x1024, .28dpi, Digital Control)
- 101 Keyboard, 3-Button Mouse
- Medium Tower Case
- 4X CD-ROM
- **Sound Blaster 16** Sound Card
- Surround Sound Speakers (115 Watt PMPO)
- MicroSoft Encarta, MS Works, MS Money, MS CD-Sampler W/Windows 95 Loaded & Licensed CD

Pentium 90MHz $ 1929
Pentium 100MHz $ 1989
Pentium 120MHz $ 2169
Pentium 133MHz $ 2309

6

Pentium MultiMedia Super Station
Adaptec SCSI/16MB/1GB/17"/6XCD

- P-90/100 MHZ
- 256K Cache
- **16MB** RAM/**1GB** SCSI Hard Drive
- Teac 1.44MB Floppy Drive
- ADAPTEC 2940 SCSI II Controller
- PCI Diamond Stealth W/2 MB
- 17"Digital Control SVGA Monitor N-1(1280x1024, .26dpi)
- 101 Keyboard, 3-Button Mouse
- Medium Tower Case
- 6XCD-ROM
- **Sound Blaster 16** Sound Card
- Surround Sound Speakers (115 Watt PMPO)
- MicroSoft Encarta, MS Works, MS Money, MS CD-Sampler

Pentium 90MHz $2599
Pentium 100MHz $2659
Pentium 120MHz $2839
Pentium 133MHz $2979
Option: Windows 95 CD add $89

No refunds after 14 days. 1 year warranty on parts. Monitors and Printers warranteed by the Manufacturer. All systems have a 2 years labor warranty at Impact Computers 15% restocking charge after 14 days and within 30 days of invoice date

Meaning #7: Microsoft

Although there were no references to Microsoft in the announcements of the deal, anyone who produces a "high-volume" operating system product is competing with Microsoft. ("High-volume" is a code word for "Intel-based desktop computers.")

These days the right to call something **UNIX is won by** demonstrating compliance with the **specification, not by** building a system on the source code owned by **AT&T, Novell, and now SCO.**

In selling its UNIX technology, Novell is opting out of that competition, and this is a major change in strategy: the strategy of producing a SuperNOS (Network Operating System) has been replaced with a strategy emphasizing Novell's role as a provider of network services.

By buying UNIX from Novell, SCO has paid good money for the right to compete with Microsoft all by itself in the multitasking desktop operating system contest.

SCO has done well in selling its UNIX products. In 1994, SCO was responsible for more than two hundred thousand of the 1.25 million new UNIX installations. In number of units sold, SCO is second only to SunSoft in the UNIX market. Novell's portion of the market was about seventy thousand units. (Measured by revenue, SCO's position in the industry changes radically: its 1994 gross revenues were $200 million in a $26 billion market.)

But it's not clear that doing well in the UNIX market is the same thing as doing well in competition with Microsoft. The only bright spot in this for SCO is that Microsoft is a minority (14%) shareholder and presumably has some interest in SCO's success.

Maybe Linus Torvalds will do us all a favor and forward the UNIX chain letter to Bill Gates.

For Further Information:

SCO has the most detailed information on the SCO, HP, Novell alliance. See its Web pages at *http://www.sco.com* .

HP and Novell also publish pages about the agreement: *http://www.hp.com* and *http://www.novell.com* .

For a summary of the single UNIX specification and a history of the ownership of UNIX through 1994, see the X/Open web site: *http://www.xopen.org* . ■

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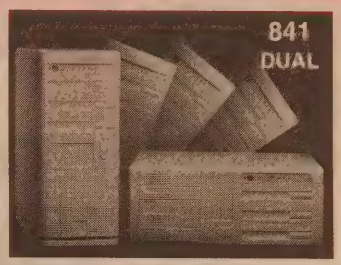

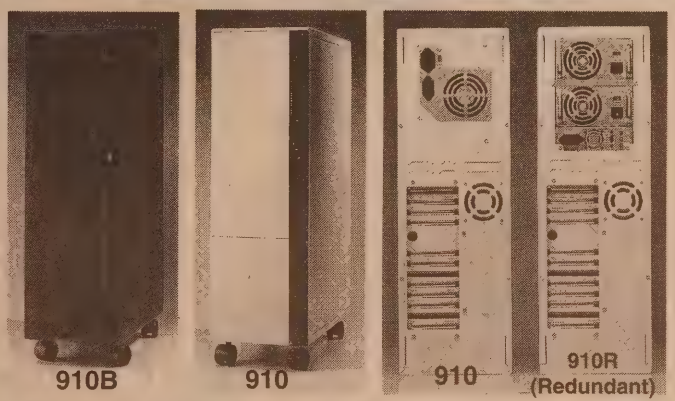

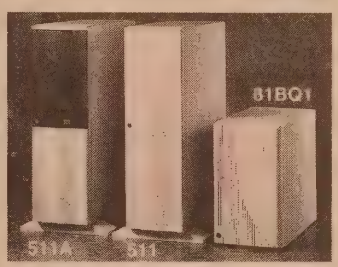

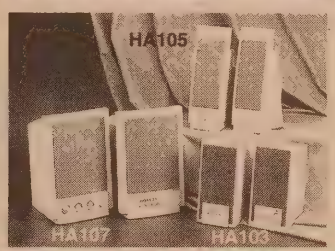

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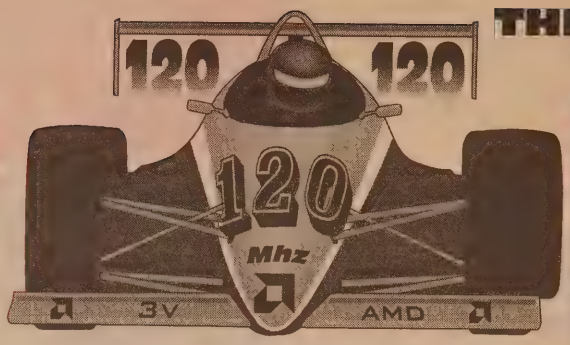

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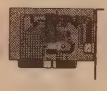

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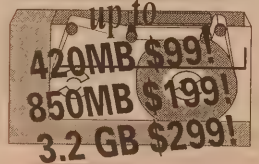

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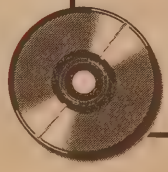

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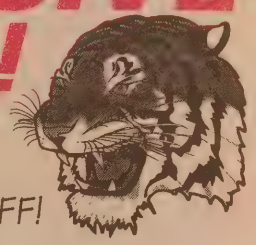

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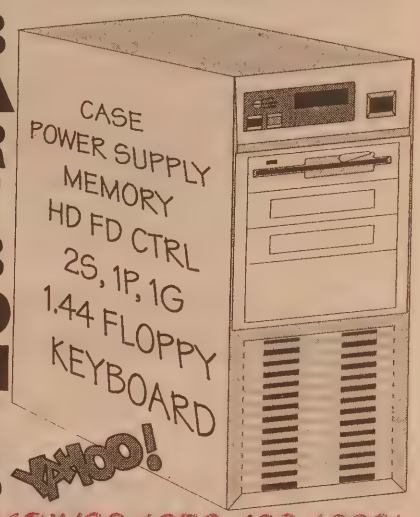

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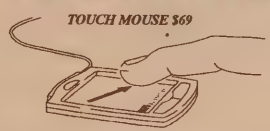

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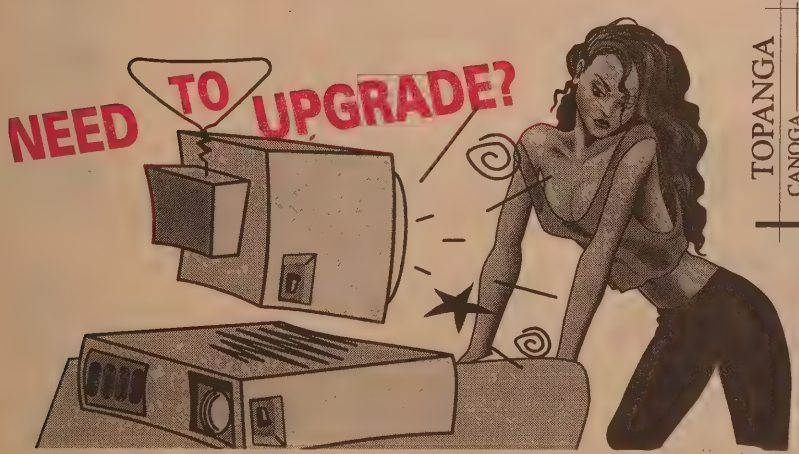

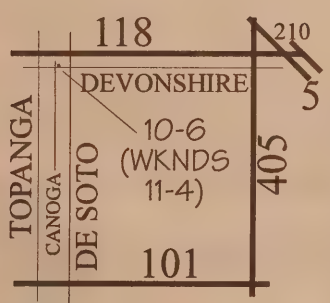

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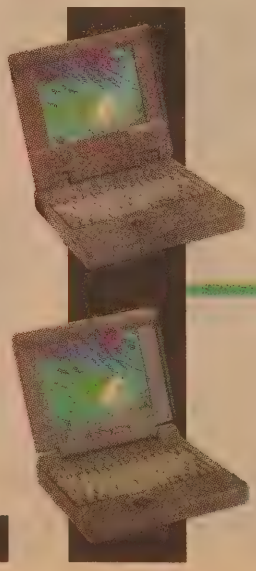

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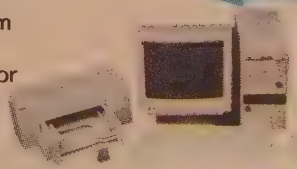

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The Shining Disc

All Roads Lead To CD-ROM

If you have been using a computer for a while, you've accumulated parts and extensions for it along the way. If it is a business computer, you may not yet have bought a CD-ROM. You may be asking yourself, is it worth the money to buy one?

If you had a computer for amusement, the answer would be a quick "yes." More and more games are multimedia extravaganzas that require a CD-ROM because they are so huge. But it is not so obvious that a business computer needs a CD-ROM drive. What are the cost-benefit breakdowns?

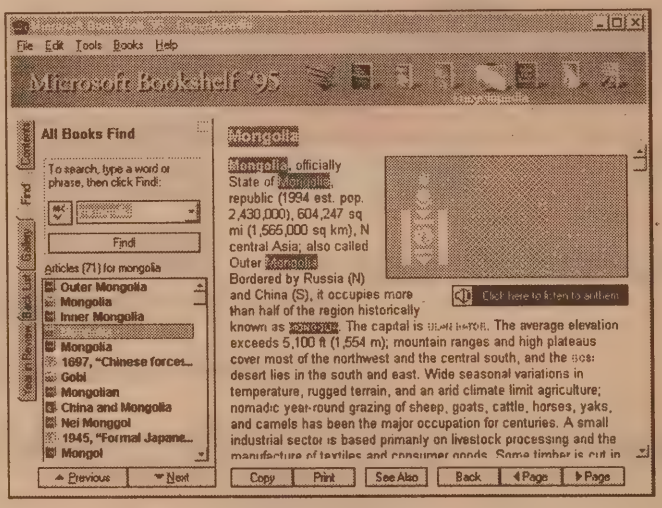
A CD-ROM costs from $200 to $600. Is it worth it? This month we look at one fine CD-ROM drive, and examine a few of the products that are available only on CD.

NEC MultiSpin 6X

Since NEC CD-ROMs have had a consistent reputation for excellence, I contacted them to see what they are up to right now. Their current top-of-the-line drive is the MultiSpin 6X, available in internal and external versions.

It is half again as fast as the quad speed drives now dominating the market. The average access time is 145 milliseconds, and data transfers out at 900KB/sec. It has a 256KB continuous flow cache. It is Plug 'n' Play compatible, and also compatible (it says here) with MPC Level 2 specs, CD-I, CD+G, Video CD playback, Kodak Single/Multisession PhotoCD, QuickTime, and (audio) CD-Plus.

I found the external version attractive. Anything that will sit on your desk for years should be easy to look at. It has audio controls on the front, convenient when you are using the device to play back Bernice Lewis rather than census data. It also has a backlit LCD status control on which track codes and diagnostics are displayed, so you know when it is working and when it is not.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Mongolia, officially State of Mongolia, republic (1994 est. pop. 2,430,000), 604,247 sq mi (1,565,000 sq km), N central Asia; also called Outer Mongolia. Bordered by Russia (N) and China (S), it occupies more than half of the region historically known as Mongolia. The capital is Ulan Bator. The average elevation exceeds 5,100 ft (1,554 m); mountain ranges and high plateaus cover most of the northwest and the central south, and the Gobi desert lies in the south and east. Wide seasonal variations in temperature, rugged terrain, and an arid climate limit agriculture; nomadic year-round grazing of sheep, goats, cattle, horses, yaks, and camels has been the major occupation for centuries. A small industrial sector is based primarily on livestock processing and the manufacture of textiles and consumer goods. Some timber is cut in
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Macintosh users have SCSI, the Small Computer System Interface, built into their machines. SCSI allows a variety of devices to be connected to each other in a daisy-chain, using only a single port. As a DOS/Windows type, I discovered that I needed to install a SCSI controller board to use the NEC 6X. NEC provided the board, and a fat little manual to go with it.

NEC is proud that the manual for their SCSI system is only eighty-two pages long. I was a bit taken aback—this was the manual for the board, not for the drive itself. But it turned out that the board and the accompanying software were largely self-installing. The board and the drive itself were up and running a very few minutes after I opened the box.

It is a credit to NEC that once you get it installed, the drive is simple and transparent. I dropped in the first CD, and I was in business.

So what can you do with a CD-ROM, once you have it installed? I decided to look at it in four different situations.

One was the simple, quick lookup—that called for a general reference tool, and I chose Microsoft Bookshelf. The second was a database. For that I chose ABI's American White Pages. The third was a graphic tool. For that I chose DeLorme's mapping software. And finally, as a depth textual tool, I chose Bible Windows.

These are four tools that are of use in my writing business. But there are thousands of business applications available on CD at this time. If these are not your tools of choice, at the end of the article I will tell you some places on the Web where you can browse among available CDs.

Casual Research: Microsoft Bookshelf

The Microsoft Bookshelf is a single-CD reference product. I find I use it every day. It includes seven reference books: the *American Heritage Dictionary*, *Roget's Thesaurus*, the *Columbia Book of Quotations*, the *Concise Columbia Encyclopedia*, the *Hammond Atlas of the World*, *The People's Chronology*, and the *1995 World Almanac*.

These are in themselves very fine reference works. The *American Heritage Dictionary* is

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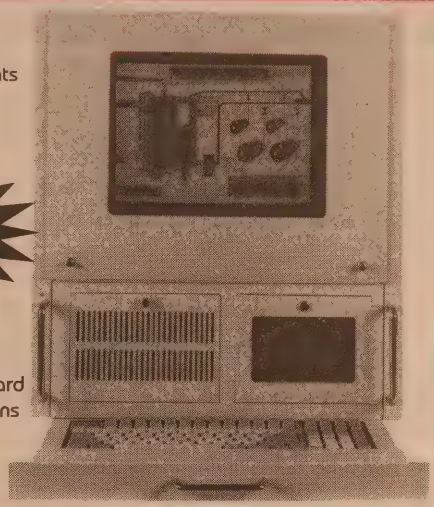

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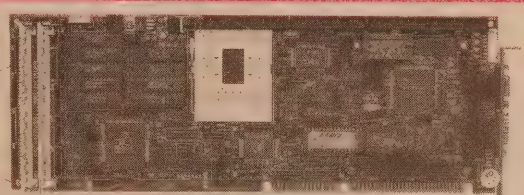

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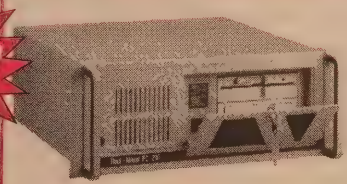

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famous for its listing of Indo-European roots, an etymologist's delight. But all the books are extended to be multimedia works. While in the atlas you can see the map of the Mongolian Republic, in the encyclopedia (if you have a sound board) you can hear a bit of Mongolia's national anthem. The article on arteriosclerosis has an animation that shows just how arteries harden—in motion.

The bookshelf is not just a stack of reference books. It is very thoroughly indexed, and you can have any topic sought in all of the reference works, in one of them, or in any combination. You can cut and paste what you find—copyright material is mysteriously added to your selection—and use it for an authoritative answer to questions.

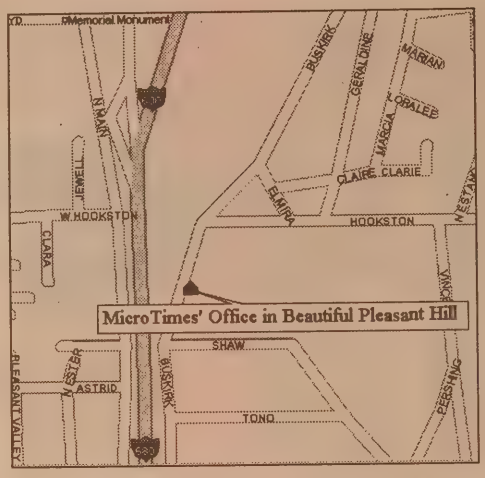
Because the dictionary and the thesaurus are at hand, you use them. Anyone who writes will appreciate the aid, assistance, help, helping hand, leg-up, lift, boost, succor, rescue, deliverance, comfort, support, moral support, backing, seconding, abetment, encouragement, reinforcement, strengthening, helpfulness, willing help, cordial assistance, and cooperation provided by *Roget's Thesaurus*.

My favorite of the books is the quotation collection. You can ask for a quotation-a-day upon opening the bookshelf, or you can just browse. It is addictive. But it is also concretely useful—hearing what others have said helps you to think things out. Under "investment," for instance, I found: "The social object of skilled investment should be to defeat the dark forces of time and ignorance which envelope our future" (John Maynard Keynes). Churchill said, "There is no finer investment for any community than putting milk into babies." Hmm, I know who should read that. Oliver Stone had a character say, "Money itself isn't lost or made, it's simply transferred from one perception to another. This painting here. I bought it ten years ago for sixty thousand dollars. I could sell it today for six hundred. The illusion has become real and the more real it becomes, the more desperately they want it."

If you need a reason to buy a CD-ROM drive, the Microsoft Bookshelf suffices.

Wide Search: ABI Phone Books

ABI Phone Books are one of a number of competing products—national telephone books on CD. American Business Information has a series



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of products—American White Pages (four thousand phone books), American Yellow Pages (ten million businesses), American 800 Numbers, Seventy Million Households, and Eleven Million Businesses.

In the White Pages you can look up telephone numbers by first or last name, by address, by city, or by zip code. You can also choose by median home value in the census area as of 1990, and by length of residence. The records that are found can be examined in detail, tagged, and downloaded with any or all of the records in each listing.

It is fast. I sought a name in Connecticut, Delaware, Massachusetts, Maine, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont in forty-two seconds, finding seven hits. That is a lot of looking for that amount of time.

It is an extremely dense body of information. There are six CDs, for the various regions of the United States. This is obviously a superb tool for finding that person you have been looking for all these years. Though it is an excellent way to contact individuals, there will be unlisted numbers. I looked up Steven Spielberg—not there. There are also numbers with no addresses, and names where you have only an initial.

And there are listings simply missed: Eleven Million Businesses found only the San Jose office for *MicroTimes* in California. There should also have been listings for the offices in Pleasant Hill, Los Angeles (Burbank), and Anaheim.

American White Pages installed flawlessly under Windows 95. Eleven Million Businesses got the error message that it was not a 32-bit program. ABI technical support was having a bad day when I called. The telephone number given for support got me to sales. About the time I got annoyed, a helpful employee said she would walk my request over to tech support, and I got a call back five minutes later.

One of the oddest things about these products, though, is that you can only examine in detail or download five thousand names and addresses from each disc before you must contact American Business Information and "renew" your disc. Searches are free, but downloads or looking-at-the-details (including the street address) are limited to 5000.

At $59.00 (street price) for the American White Pages, we are talking a bit over a penny per name-and-address. Used cannily, it could be a cheap way to build a middle-sized mailing list.

Wide Research, With Pictures: DeLorme Mapping

Imagine, if you will, software that begins with an overview of a third of the United States. With a few clicks you can zoom in on any tiny area in the country. You can search graphically with the mouse; or you can search textually by place name, by telephone area code and prefix, by street address and zip code, or by zip code alone.

DeLorme's mapping is stupendous. This product is able to give sixteen degrees of magnification on maps of any region in the United States, from satellite-like overviews of multi-state areas to small neighborhoods of a few

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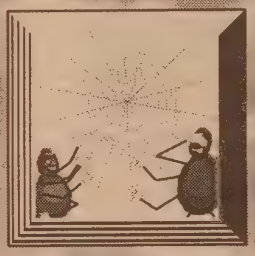

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blocks. Even on my antiquated 386 the maps come up fast.

I am curious how they got so much data on one CD-ROM. To check the maps for accuracy, I looked up my home. I entered my address. The program thought for twenty seconds and then painted my neighborhood. A house symbol sat directly over the spot where I live. The map included an odd jag in the street that frequently misleads drivers. I also looked up an intersection in a small town in Vermont we visited (and got lost in) last summer. That map too was accurate, down to a bend in the road by the river. At larger magnifications, towns and cities and main roads are painted in while the detail is omitted. The printed maps are just as good as the on-screen charts, and can be made in color or black and white.

Maps can be annotated with text, symbols, or white-background notes. The result can be printed (and you are given a license to use them personally or internally in your business) or posted on the Web. This is one of those products that can pay for itself the first time it keeps you from getting lost in a strange city, or when you send a map to a customer who wants to find you.

DeLorme's Phone Search USA is a three-CD set that interlocks with Street Atlas USA. You can look up a name in Phone Search. In this it is much like the American Business Information products, and Phone Search also lets you search by SIC (Standard Industrial Classification) codes. The unique advantage of Phone Search is that you can switch to Street Atlas to get a map of the location you have just found.

Because Street Atlas was so good, I was prepared to love Phone Search. Then I found the SIC searcher on my copy did not work. I could not find myself in it, though I have been listed for over ten years. Like Eleven Million Businesses from ABI, it found only one of our four offices. So I can recommend Street Atlas USA, but not the companion Phone Search. It is too bad—if Phone Search USA were a bit more complete, the combination of Street Atlas and Phone Search would be unbeatable!

Deep Research: Bible Windows

Many bodies of information now coming out on CD-ROM are intended for depth-questioning. You may return to them again and again with questions that lead to other questions, looking at the same documents from dozens of viewpoints.

As more and more business is the pure exchange of information, the value that a small business adds is frequently found in permutation. The small-business person is the one who knows how to ask good questions and to arrange information in new patterns.

Lawyers (those best-paid of scholars) do this for a living. So does anyone who is embedded in a textual lineage which is important to them. One tradition which has entered the CD market is Biblical studies. My favorite small business in Cedar Hill, Texas, is Silver Mountain Software, where John Baima publishes Bible Windows.

John has now come out with a CD that has it all. All? Yea verily. It has the Bible in English (using the RSV), the New Testament in Greek, the Hebrew Scriptures in Hebrew. And it has early translations: Seventy Jewish scholars created their own translation from Hebrew to Greek in Alexandria, two centuries BC. The Septuagint, their translation, is on the CD. The ornery St. Jerome translated the

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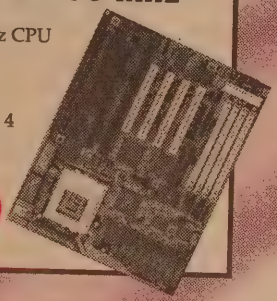

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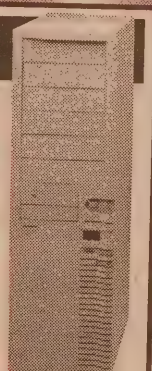

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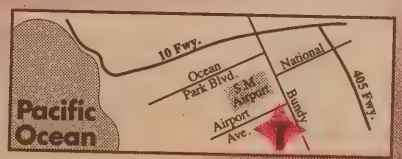

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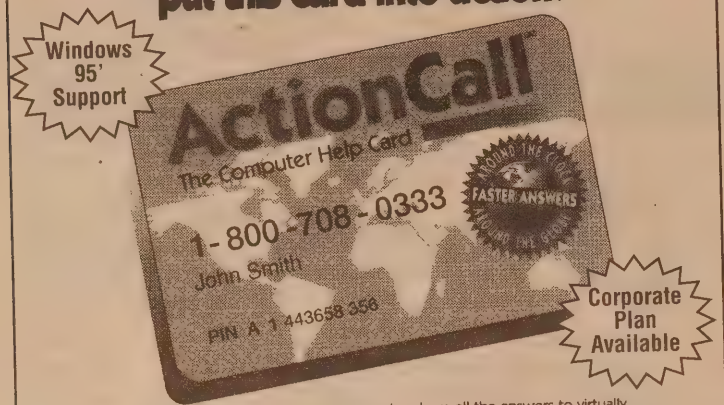

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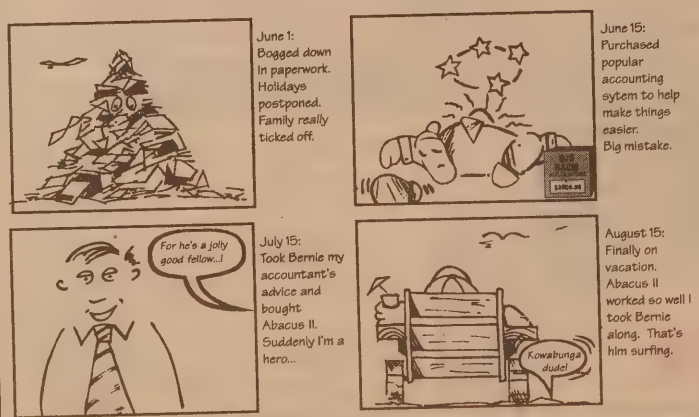
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*Single user version. Network version $995.00

whole Bible into Latin; this Latin Vulgate is also aboard. There are dictionaries for the languages, and grammatical analysis tools. It really is all on one CD.

Bible Windows is a perfect example of the advantage a CD-ROM drive confers on researchers. I was a user of Bible Windows on hard disk. The proliferation of texts got so large that I finally had to erase the whole program. It was not that it was bad—I had to dump it because it was too thorough and too big. Now that all the texts and tools are on one shining disc in the CD drive, I can use it again.

In Bible Windows, a scholar can select a Greek word in the New Testament. Then by opening the Greek Old Testament, you can find what words ancient Jewish scholars thought it corresponded to in Hebrew. A hop to the Hebrew texts, and there are those Hebrew words in context. Check the dictionaries and find what other uses those words had in contemporary writings. One can pursue ideas like "neighbor" and "justice" back through their early history in our culture's parents.

If you are stifling a yawn at this point, remember that Baima has done for a specialized market what Microsoft has done for a mass market with the Microsoft Bookshelf. Important literary and legal documents from many cultures are rapidly joining the CD-ROM library. Dr. Steven Goodman of the Institute for Buddhist Studies in Berkeley tells me that pious lay people in Southeast Asia are paying to have the Theravadan Buddhist Canon entered on CD-ROM. Law libraries are already there.

The incredible density of information on a CD makes possible a new kind of quick, in-depth research that was beyond most of us just a few years ago.

The Usual Caveats

There are two. The fastest CD-ROM is slower than a hard disk drive in many ways. Be prepared for a wait of some size. But if the indexing has been done with great care, you will get faster access to a million records on a CD-ROM drive than you will to the same amount of data on an unindexed hard drive. Therefore you want to ask if the CD-ROM you are buying is adequately indexed.

If you think that a body of data on CD-ROM means no hard drive overhead, think again. You need to have several megs of hard drive space for the program which loads and operates the CD-ROM.

How much? Microsoft Bookshelf's directory on my hard drive was 1.46MB. Bible Windows took 2.91MB. American White Pages wanted 3.03MB. These are not huge amounts of hard drive overhead for the amount of data you are getting—but if you have many CD-ROM applications, they add up.

Finding CDs On The Internet

If you are intrigued by the possibilities of a CD-ROM drive but my chosen applications are not for you, you can shop for CDs on the Internet. Yahoo and Webcrawler will help you find them.

Some are listed independently, such as the Orient Business Express CD (*http://www.aloha.com/~dan/obecd.html*) which says it is a "CD-ROM directory of businesses in Hong Kong, Indonesia, Korea, Malaysia, the Philippines, Singapore, Taiwan, and Thailand."

There are also online stores. The CD-ROM Shop

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* Connotates factory refurbished items.

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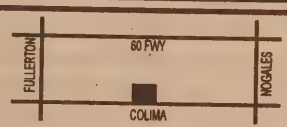

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(*http://www.cdromshop.com/cdr/home.html*) says they have fifteen hundred titles IN STOCK! Two more I found were CD-ROM Software by Telecentral (*http://www.a1. com/tlcental/*) and a page that seemed to be under construction, CDROM Plus+ (*http://rampages.onramp.net/~powerv/*). I have not used these services myself, but they certainly provide good places to browse through titles.

Bottom Line: Is A CD-ROM Worth The Cost?

I started out skeptical, I came away convinced. No doubt about it. And it is worth the money to buy a fast drive—any product you will use a lot is worth accessing quickly. Accept nothing under quad (4X) speed, and seriously consider NEC's attractive MultiSpin 6X. ■

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RESOURCES

MultiSpin 6X CD-ROM Reader
Internal 6Xi:,$484
External 6Xe,$581
NEC
1-800-615-5566

Microsoft Bookshelf
$54.95
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STEP TWO: SYSTEM CONFIGURATION:

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CPU MHz & SPEED:
○ PENTIUM ○ 486
○ DX4 ○ DX2 ○ DX ○ SX ○ SLC ○ Quadra ○ PowerPC
○ 133 ○ 120 ○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60 ○ 50 ○ 40

BUS TYPE ○ PCI ○ VLB ○ EISA ○ ISA

CACHE ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ 1MB ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

HARD DISK DRIVE: ○ 100MB+ ○ 300MB+ ○ 500MB+ ○ 1GB+ ○ 4GB+
○ IDE ○ SCSI ○ 200MB+ ○ 400MB+ ○ 700MB+ ○ 2GB+ ○ 8GB+

MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI
○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI
○ 20" ○ 21" ○ Multisync

FLOPPY DRIVE: ○ 1.44MB and/or ○ 1.2MB

FAX MODEM: ○ Internal ○ External ○ 9600bps ○ 14400bps ○ 28800bps

CASE TYPE: ○ Mid Tower ○ Desktop ○ Full Tower

VIDEO CARD RAM ○ 512KB ○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard ○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SYSTEM NEEDED: ○ Windows 95 ○ OS2/Warp ○ Win NT ○ Mac ○ UNIX ○ DOS/Windows 3.11

STEP THREE: MULTIMEDIA UPGRADE

○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately

CD ROM DRIVE: ○ Internal ○ IDE ○ SCSI ○ External

CD ROM TITLES INCLUDED: ○ 1-5 ○ 5-10 ○ 11+

SPEED ○ 2X ○ 4X ○ 6X

○ BRAND NAME ○ No Brand Name Preference

CD ROM Brand Name and Model Number

SOUND CARD ○ 16Bit ○ 32Bit

SPEAKERS
○ Less Than 25W
○ 25 to 50W
○ 50 to 75W
○ More Than 75W

STEP FOUR: NOTEBOOK SECTION - Please Note You Must Make Choices In Steps 1 & 2 To Complete Step 4

SCREEN TYPE: ○ Mono ○ Dual Scan Color ○ Active Color

PCMCIA SLOT: ○ Type I ○ Type II ○ Type III ○ Type IV

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○ Users 2 to 10 ○ Users 10 to 50 ○ Users Over 50 ○ Lantastic ○ Apple Talk ○ Novell ○ MS NT

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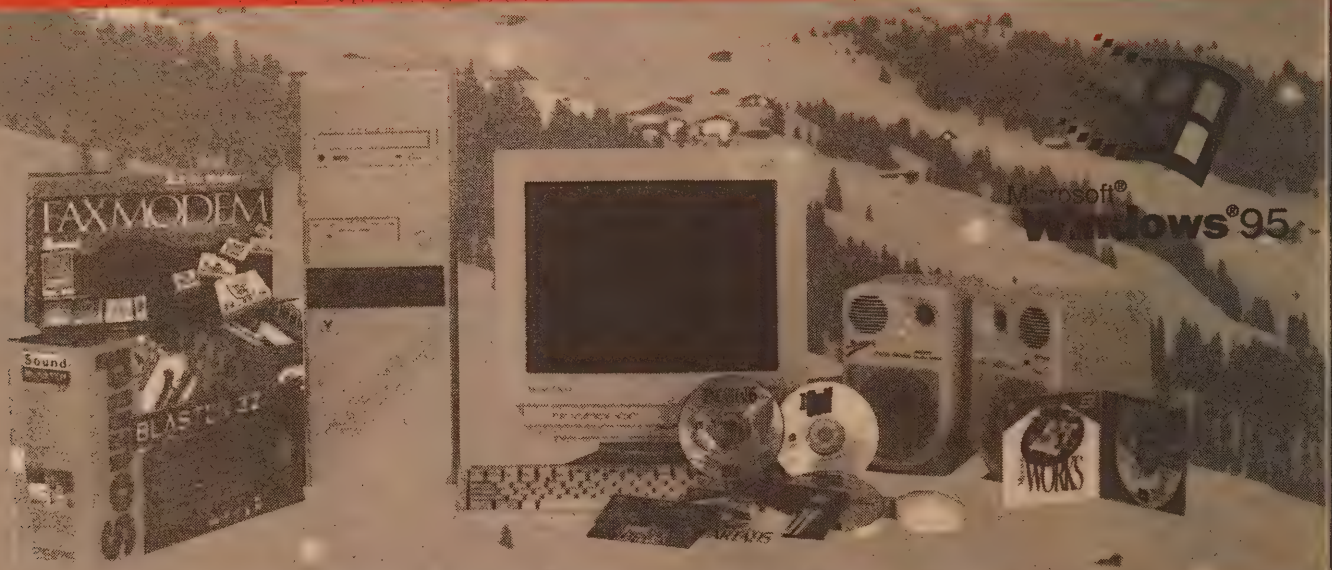

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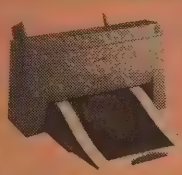

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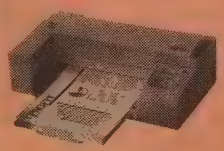

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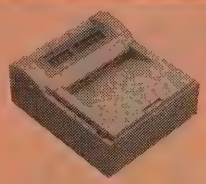

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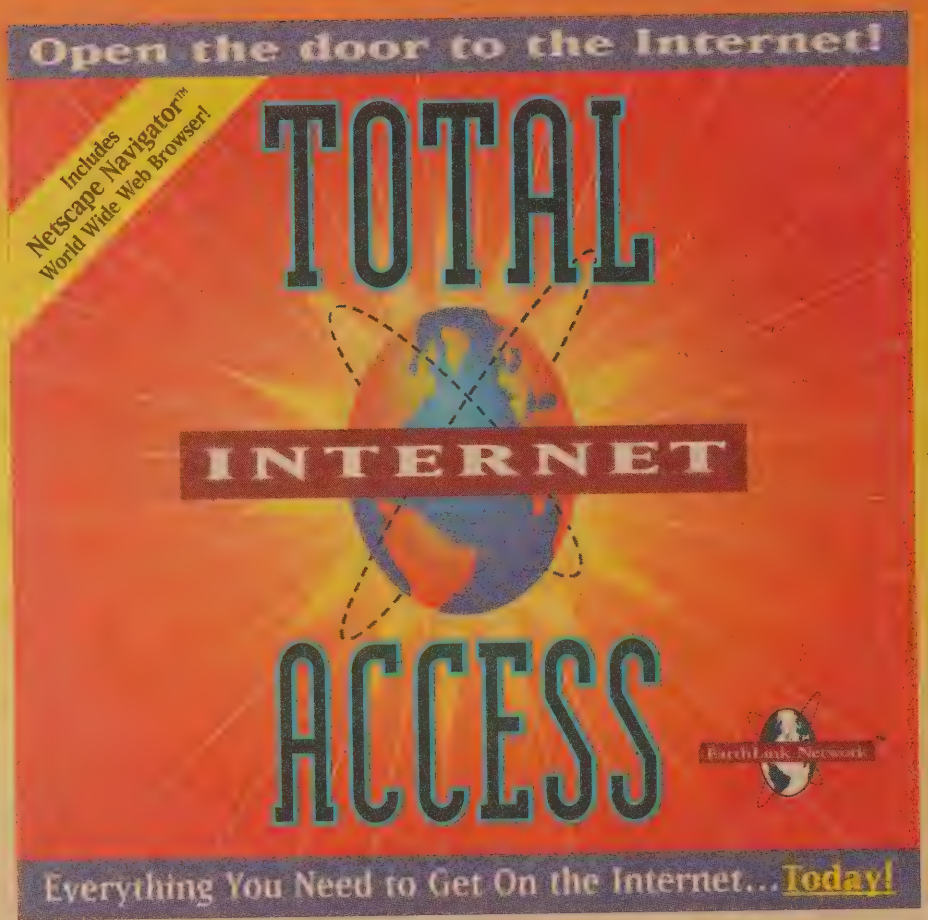

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INTERNET • BY JOHN S. QUARTERMAN AND SMOOT CARL-MITCHELL

When Is A Hacker A Criminal?

The Cautionary Tale Of Randal Schwartz

What is a hacker? Even people who *are* hackers, that is, skilled programmers, often know no other meaning than that commonly used in the press and in movies, i.e. "computer criminal." (If you want to know more about the real meaning, see *ftp://www.tic.com/pub/hacker*.)

So what? It's just a word, isn't it?

Well, words can become labels that determine people's expectations about other people. The cautionary tale herein may be such a case. If you think it's too exotic to apply to you, read on, and see the notes at the end.

Randal Schwartz: The Streets Of Hell Are Paved With Good Intentions

Randal L. Schwartz is a technical writer turned programmer, system administrator, instructor, and author. He began working for Intel in early 1988, and worked there continuously (except for two weeks in late 1988) until the end of 1993.

While working at Intel iWarp (which later became part of SSD, the Supercomputer System Division), he had recommended that his employer maintain basic security by following some standard procedures, such as using good passwords. (This really is basic, as any security expert from DIA to NSA to CERT, the Internet's Computer Emergency Response Team, can tell you.)

He had started checking their passwords by running "crack" in mid-1991. Crack is a program familiar to most system administrators today (and one distributed by CERT; see *ftp://cert.org/pub/tools/crack/*). It attempts to crack a set of passwords, typically as found in a UNIX /etc/passwd file. (Randal was quite familiar with crack, having served as a beta tester for crack v3.) When he left SSD in the middle of 1992 to work for a different Intel division (HF), crack was still running (on autopilot) in SSD.

While working for Intel, Randal had started giving week-long training courses for other organizations around the country. These were about Perl, a popular programming language invented by Larry Wall. Since these courses involved travel, he arranged ways to read his mail at Intel over the Internet while he was still working for Intel but not physically present. This seemed prudent, since, starting in late 1993, he had become responsible for deploying DNS (Domain Name System) servers throughout Intel. Since DNS handles the basic mapping of symbolic hostnames (such as ssd.intel.com) to IP addresses (such as 137.46.3.5), a broken DNS server can adversely affect almost every other TCP/IP service.

> MANY PEOPLE ARE AFRAID OF COMPUTER NETWORKS BECAUSE THEY ARE STRANGE AND NEW, AND THEY'RE EVEN MORE AFRAID OF THOSE WHO UNDERSTAND COMPUTERS AND NETWORKS BECAUSE THAT KNOWLEDGE IS POWER. THE TRADITIONAL POWERS THAT BE APPEAR TO BE TRYING TO SLAP DOWN UPPITY COMPUTER PEOPLE.

Thus it was useful to know quickly of any problems with Intel's DNS servers. Intel has previously told the authors that everyone in their company from the president down uses their enterprise TCP/IP network, so we can see how they would want it to continue working.

Randal had coauthored a popular book for O'Reilly and Associates (ORA) about Perl (*Programming Perl*, published January 1991). He also took the obvious next step with his training material, and wrote another Perl book (*Learning Perl*, published November 1993). He had an account on ORA's machines, and figured they wouldn't mind if he did a little testing there. Against ORA's password files, crack found one password out of about two hundred. The ORA system administrator, Tanya Herlick, had already discovered that bad password, so it was cleaned up almost before Randal even found it (not that either of them knew what the other was doing at the time). Thus ORA was a good comparison case for reasonably good security.

In late 1993, while working for Intel, but in a different division (as a system administrator for HF), Randal ran crack against the password file of an SGI machine in SSD where he had an account to support prior work for SSD. It found one password straight out of the dictionary (user "ronb" password "deacon"). Ordinary dictionary-word passwords are very bad, because they're easy to crack sim-

Internet *continued...*

ply by trying numerous dictionary words; a task that any programmer can accomplish.

Randal decided to see how far the problem extended. He was no longer working for SSD, but he was currently a system administrator in a different division, and he was consulting for corporate on the DNS project. Security is traditionally part of a system administrator's job; a security problem in one division is a security problem in the whole company if it's on the corporate network, since a compromised account on one machine can be used as a base to attack other machines. This particular user also had an account on the main SSD server cluster. Randal guessed that that account would have the same password.

One might well say the prudent course would have been to inform the current SSD system administrators of the problem. But Randal decided to try it himself. It was the same password.

> THE CASE WENT TO A JURY TRIAL. SOME OF THE JURY MEMBERS APPARENTLY DID OWN COMPUTERS, BUT OF COURSE ANYBODY WHO MIGHT DO ANYTHING REMOTELY RESEMBLING SYSTEM ADMINISTRATION WAS REJECTED. RANDAL WAS FOUND GUILTY ON ALL COUNTS, ON JULY 25, 1995.

Randal decided to test the password file for the main SSD cluster. He pulled its passwd file over to a fast machine and ran crack on it, and similarly for other machines in that division. Crack broke forty-eight out of six hundred passwords.

It was clear that Intel's security was not very good. Crack had found about fifty likely ways an outsider might break in. Randal thought he was doing his employer a big favor by discovering these weak spots in the company fence. One of them was particularly bad, since it was a vice president's account, and the password was "pre$ident," which is an ordinary dictionary word with one letter (the most obvious letter, S) replaced with a dollar sign.

Unfortunately, Randal was waiting until he had relatively final results before informing regular SSD staff of what he was doing. Meanwhile, one of them noticed that he was running crack, and told his manager. The manager, rather than approaching Randal about it, reported it up the hierarchy. Evidently many of the powers that be at Intel thought they had discovered a corporate spy.

Three days later, Randal discovered something was amiss when police arrived at his house on November 1, 1993. About half a dozen of them took all his computer equipment and kept it for forty days. He was also terminated from Intel within the same two-hour period as the raid.

He did have the consolation of learning that

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Crime & Punishment?

What Randal didn't know was that the report up the Intel hierarchy had resulted in criminal charges being filed against him. Oregon has a vague law against "altering" or "transporting" computerized information, with the distinction between the two unclear. The indictment was handed down March 14, 1994. The three felony counts of Computer Crime according to Oregon State Law were:

Count 1: altering without authorization two computer systems.

Counts 2 and 3: accessing a computer with intent to commit theft.

The first count has to do with the remote mail access. It seems Intel's interpretation was that Randal had "altered" their systems by, for example, putting a .forward file in his login directory to cause his mail to be forwarded elsewhere. The district attorney apparently also wanted to show use of Intel accounts for non-Intel business.

The other two counts have to do with the passwords he discovered on other people's accounts by running crack. What he was accused of stealing (theft) was password files. The DA considered moving a password file between two Intel machines to be at least "transporting." So Randal stood accused of stealing information from Intel, even though even the DA never alleged that anything left Intel's premises.

The case went to a jury trial. Some of the jury members apparently did own computers, but of course anybody who might do anything remotely resembling system administration was rejected. This is evidently common practice these days; a jury of your peers means nobody that does what you do.

Randal was found guilty on all counts, on July 25, 1995. The deciding factor may have been the prosecutor's final summary, in which he made the analogy of letting a carpenter into your house to fix the garage and finding him upstairs rifling your personal papers. Never mind that the analogy is not apt, if for no other reason, because Randal *was* fixing the garage, to the best of his abilities and of his understanding of his job description. The jury didn't know that.

Randal is now a convicted felon, unable to vote, hold public office, serve on a jury, or fulfill government contracts. And he's already spent $112,000 in legal fees, with an expection of a total of $140,000 just for the first trial. All for helping his employer.

On September 11, 1995, he was sentenced on the three counts:

Count 1: Reduced to a misdemeanor with five years probation and ninety days in jail. The jail time is to begin September 1, 1998. Ninety days before that day Randal can petition the court to demonstrate excellent behavior and rehabilitation, and the jail time may be dismissed. Disclosure required (see below).

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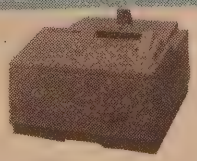

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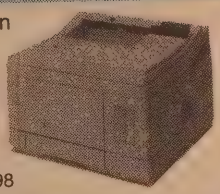

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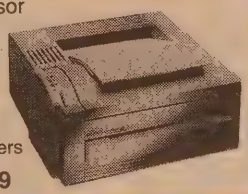

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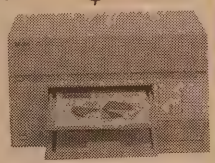

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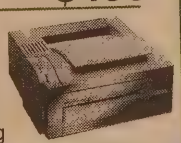

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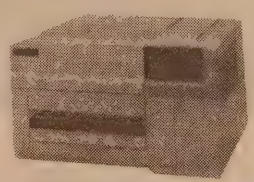

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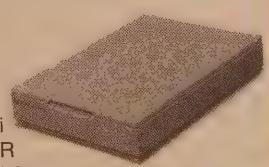

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The hours of community service count jointly for counts 2 and 3, so the total is 480, not 960.

Disclosure: Randal must not become either a contract employee or employee without any potential employer becoming fully aware of his conviction.

Restitution has still not been set, and a hearing on it is yet to be scheduled. Intel was originally asking for $63,000, and now wants $9000 more.

Why Did This Happen?

Partly, of course, because Randal made mistakes: for example, not keeping both Intel and ORA informed, and trying the account with the deacon password. He readily admits he made mistakes, and has apologized to Intel more than once in public for doing so.

But if Intel thought he had exceeded his authority as a system administrator or had shown poor judgment, they had plenty of recourse available to them by traditional methods: a talk in his supervisor's office; a cut in pay; being summarily fired and walked out the gate. Instead, they brought criminal charges and are still pressing for large sums of retribution even after conviction.

Randal also made mistakes during the legal proceedings. The police did read him his Miranda rights, and he now knows that "you have the right to remain silent" is a very good phrase to consider without speaking. And he made at least one bad mistake during the trial. When asked by the prosecutor whether he had done what he had done for personal gain, he thought about it and considered that helping his employer would make him look good, bring in more consulting, maybe increase his pay, etc., and said (one may well say foolishly), "Yes." The prosecutor, no dummy, brought this up during his summation.

It may be relevant that the prosecutor apparently remarked, in a news conference after the verdict, that it would send a message that Oregon was "safe for business." It may also be relevant that Intel is the largest employer in the state. Not that this case (or the problem it represents, anyway) is specifically about Intel; it could have happened at any largish company or university.

System administrators almost always work in very vague job descriptions, with little or no demarcation of the scope of their activities or when or to whom they should report them. Consultants work under even more vague job descriptions, because they can't even be required to work at specific hours or told when to work on specific tasks or the IRS won't consider them to be consultants. Intel is not alone or even unusual in having no clear usage guidelines about their systems. The risk of the hierar-

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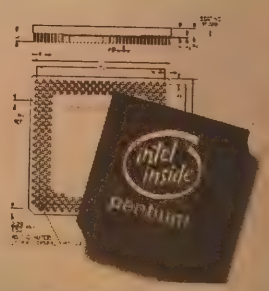

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chy at any large organization getting incensed at some (to them) clerical worker running something called "crack" and finding out that, for example, high-level executives have bad (not to mention embarrassing) passwords, is always with us.

The nature of system administration leads to all sorts of possibilities of civil or criminal charges. If not crack, how about illegal transportation of company property off the premises (taking source listings home to study)? Or illegal use of university communications facilities for political purposes (sending an electronic mail message to your Congress member)? Or illegal export of controlled processes (such as PGP, in the Phil Zimmermann case)?

If you want to keep up to date on this case, send mail to *fund@stonehenge.com* . That electronic mail address goes to an autoresponder which will also send you Randal's short version of the story.

The Rest Of The Story

Much of the above account comes from Randal. We have no reason to doubt that he is telling the truth, but of course there may always be more to the story. Incidentally, we have not yet received input from Intel, but we would be happy to print some when we get it.

If anyone has reports that cast a different light on the matter, do send them in. So far, the worst we've heard has been someone claiming to know that Randal had "broken into at least one system previously." On correspondence with the person who said that, this turned out to be an allusion to Randal running crack on ORA's systems.

Culture Clash?

The system administrator at ORA, Tanya Herlick, was informed by the FBI that someone had allegedly broken into her systems. She was at a system administration conference at the time, and asked the assembled attendees for advice.

"What no one knew at the time was that this was not a typical hacker break-in. It wasn't a break-in at all, in fact. This did not keep me from having a heart attack at the conference, however. I mean, someone comes up to you and says 'The FBI called and said someone hacked your main server.' And you were 2000 miles away and afraid to log on (and definitely not as root)? What would you do?"

She didn't know that the alleged perpetrator was Randal, which would have been interesting, since he was known to her audience through his books and tutorials and through Usenet and the Internet. She says: "If I had known it was Randal, I possibly wouldn't have even brought it up! Not because Randal is any kind of white knight or anything, but because I knew he had an account on our system, so it couldn't have been a break-in. I found out early the next morning that it was him. I ran into Tim [O'Reilly] after I found out and it turned out that he already knew 'cause Randal had called him."

What she actually did was to disable Randal's account for a couple of days and then reinstate it after talking to him.

Tanya Herlick testified (by telephone) for the defense at the trial, saying that Randal still had his account at ORA and they had no intention of taking any legal action against him. Tim O'Reilly (founder and president of ORA) even spoke up for Randal when asked by the press.

Herlick says: "If Randal had come to me and asked if he could run

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crack, I would have said no. It was presumptuous of him to think we wouldn't mind. If anything, a system admin should know this better than other users. However, it is not a crime. Just inappropriate. I wish I could have had the chance to say this at the trial, but I didn't."

Yet we still keep hearing that "Randal has quite a rep as a hacker." Those who say that clearly mean the criminal sense of the word, but they never seem to be able to point at any specific activities.

Could it be that once someone is charged with criminal activity, the networked community considers that they must have done something to deserve it? If so, the networked world is much like the rest of the world, indeed. Could it be that Randal's carefully cultivated reputation as a "Perl hacker" is backfiring on him, because so many people think "hacker" means "criminal"? It sure seems likely.

WE'RE CURRENTLY IN SUCH AN ERA OF FERMENT SURROUNDING COMPUTER NETWORKS, AND PARTICULARLY THE INTERNET, THAT A FEW MISTAKES AND A WORD CAN MAKE YOU A CONVICTED FELON.

Why should you care? Maybe you've never even written a program; you just use computers. But do you post messages by electronic mail or Usenet? If so, you might want to consider the implications of the Communications Decency Act of 1995 (CDA), which we previously described in this column, and which may yet become law. Post one message and you, too, may be facing a hefty fine and jail time for "making available" information that some DA chooses to consider "indecent."

The possibilities are numerous, and aren't limited to system administrators, either. The nature of, oh, library work has become so involved with computers and networks these days that librarians, professors, schoolteachers, or secretaries could be subject to the same difficulties.

Many people are afraid of computer networks because they are strange and new, and they're even more afraid of those who understand computers and networks because that knowledge is power. In both cases the traditional powers that be (the Senate, the Oregon DA) appear to be trying to slap down uppity computer people. And to Senators and prosecutors who don't know how to program a VCR, someone who knows how to send electronic mail may well look like a "hacker."

We're currently in such an era of ferment surrounding computer networks, and particularly the Internet, that a few mistakes and a word can make you a convicted felon. ■

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Web Page Listings

BUSINESS

Accord Services *http://www.weblink.com/accord/* Accord Services offers software to help you think creatively, solve problems, and meet new friends. [Exp. #146.]

Adult CD-ROMs! *http://www.primenet.com/~rdmm/* Free catalog. The hottest adult interactive games and movies available. ROM-Dezvous multimedia. [Exp. #147.]

AdultDex 95 *http://www.a1.com/tpi/index.html* Gateway to adult multimedia industry. Developers, publishers, distributors, and mail order. [Exp. #146.]

Advanced Computer Products *http://www.liberty.com/home/traveller* The home of Advanced Computer Products and the online swapmeet! Also home to ACP Components. [Exp. #145.]

Advanced Logic Research *http://www.alr.com/* ALR manufactures sophisticated multiprocessor network servers, high-performance workstations, and environmentally friendly personal computers. [Exp. #146.]

Agora Digital *http://www.agora.net/* Online service for new and traditional media, including searchable database of industry talent. [Exp. #143.]

Air Brokers International *http://www.aimnet.com/~airbrokr* Visit places around the world, online world travel newsletter, circle the globe, Asia, Pacific. [Exp. #145.]

Aircraft Spruce & Specialty Co. *http://www.aircraft-spruce.com* Aircraft Spruce is the premiere distributor of aviation supplies for certificated and home-built aircraft. [Exp. #145.]

Albin Engineering Services, Inc. *http://www.hooked.net/users/aesi/* Albin Engineering Services, a leading placement firm, has several openings for SW Engineers. [Exp. #144.]

Alps Electric *http://www.alpsusa.com/index.html* Photographs and complete specs for the most popular products of this computer peripheral manufacturer. [Exp. #145.]

Amulet Consulting *http://www.amulet.com/mirror/amuletc.com/* Internet and desktop database software development. Home of the HOT database site of the month. [Exp. #147.]

Apartment Locators, Inc. *http://www.homefair.com/apt.aptla.html* Apartment hunting in LA and Orange County areas. [Exp. #144.]

Applied Computer Systems *http://www.apcom. com* ACS sells new and pre-owned Sun equipment. We sell parts as well as complete systems. [Exp. #146.]

Around-The-World Airfares & Adventures *http://www.highadv.com* High Adventure Travel's catalog of discount around-the-world airfares, Himalayan treks, African safaris, etc. [Exp. #143.]

Art Indices, International *http://www.artindices.com* Commercial online gallery of contemporary art and consultation services for corporate and private buyers. [Exp. #145.]

ArtRock Online *http://www.artrock.com/* Online retail catalog and gallery of the world's largest selection of collectable rock and roll music poster memorabilia. [Exp. #146.]

ATK Engines *http://www.atk-engine.com/~atk* Factory remanufactured engines for American, Japanese, and European cars and trucks. Free delivery in the USA. [Exp. #147.]

Barnes & Noble in Costa Mesa *http://www.ni.net/barnes_noble* See what is happening in our store and link up with other Internet book sites. [Exp. #146.]

BayFront Classifieds *http://bayfront.com/* Use our search tool to find the ad items you're interested in. Submit free classified ad. [Exp. #147.]

Bender Zahn Tigges *http://scamless.com/bzl* Located in Dusseldorf, this German law firm handles clients throughout Europe. [Exp. #146.]

BG Computer *http://www.zoom.com/personal/bobhuang/bg/bgmain.html* [Exp. #146.]

Bilbo Innovations, Inc. *http://www. bilbo.com/tae/bilbo/bilbo.html* Step on it! Computer Control Pedals take the next step in user convenience. [Exp. #147.]

Boyden Dental Practice Home Page *http://www.smiledoc.com/dentist/* Tops for a better smile and links to other dental advisories to keep you informed. [Exp. #147.]

Braxton Indexing's Home Page *http://www.thebeach.com/bus/braxton/* Publisher of indexes in legal, scientific, and research areas. [Exp. #145.]

Buell Motorcycle Company *http://www.buell.com/buell.html* America's newest motorcycle manufacturer was formed in 1993 by Erik Buell, a former Harley-Davidson, Inc. engineer and ex-national class road racer. [Exp. #146.]

CADALYST Magazine *http://www.advanstar.com/cadalyst* Providing valuable information to visitors interested in the AutoCAD industry—includes current and classic issues of the magazine. [Exp. #146.]

Cadkey Developer's Network *http://www.cadkey.com* Makes available the Software Development Kit to Cadkey's Strategic Development Partners. [Exp. #145.]

California Computer Expo '95 *http://www.qualcomm.com/users/gnash/cce.html* Largest consumer computer show on West Coast. August 17–20, San Diego Convention Center. 1-800-573-3247. [Exp. #143.]

CARS—Cyberspace Auto Related Swapmeet *http://www.carsnet.com/* Find all kinds of vehicles for sale, everything from uniques to antiques. A video page offers over eighty of the Wildest Racing Motorsports tapes available. [Exp. #147.]

CD Source *http://www.cdsourceline.com/cds* CD-ROM resource center, bookstore, software store, news, and reference site. Includes reviews, articles, and tips. [Exp. #146.]

CD SourceLine *http://www/cdsourceline.com/cds/* A CD-ROM technology resource center to learn about, evaluate, sample, and shop for CD-ROM titles and books. [Exp. #147.]

Center For Electronic Art *http://www.cea.edu/* Discover the Artists' Exhibition and access up-to-the-minute information about classes, schedules, events. [Exp. #145.]

ChiPants *http://www.aonet.com/chipants/* ChiPants, the comfortable and intelligent pants for men and women, are now available on the World Wide Web. You can also email requests and questions to *chi@nbn.com.* [Exp. #145.]

ClickPic Scanning Service *http://www.netventure.com/cpc/* Scanning service offering fast, high-quality, photo and document scanning with email return of images. [Exp. #146.]

Coldwell Banker *http://www.RWF2000.com/barry.html* Real Estate broker for SF Peninsula area specializing in homes and small investment properties. Also specializing in church owned properties in four county area. [Exp. #147.]

Compuforms Co. *http://www.cpfc.com/compuforms* Electronic forms, continuous forms, labels, checks, and downloadable artwork. [Exp. #144.]

Computer Training Consultants *http://www.he.tdl.com/~msri/CTC1.html* Provides in-house, online, and on-site software and hardware training in PC and Mac LAN environments. [Exp. #146.]

Computer Training Network *http://www.crctraining.com/ctn/* CRN lists computer instructor and training companies by category, product, and region. Help for companies to upgrade emplyees' skills. [Exp. #147.]

Copyright Clearance Center *http://www.directory.net/copyright* Offers an automated process for obtaining and paying for reprint rights. [Exp. #143.]

Credi-Call *http://branch.com:1080/cc/cc.htm* Use your credit card as discount calling card. Up to 90% savings on long distance. [Exp. #143.]

CyberLawyer *http://cyberlawyer.com/advice/* An Internet legal service that provides quality online legal advice from licensed attorneys for a modest fee. One query is just $24.95. [Exp. #147.]

CyberNautix, Inc. *http://www.community.net/~nautix/* UNIX and Internet technical services firm. System management, training, and custom services described. [Exp. #143.]

Cyboutique *http://www.romantasy.com* A unique, interactive crossroads for exploring issues, ideas, and products to enhance sexual well-being and encourage intimacy. [Exp. #145.]

Darwin Open Systems *http://www.uunet.ca/darwinsys/* UNIX training and consulting. OPEN LOOK and XView CD-ROM contains source for library, many programs in source, and compiles for Minux and SunOS. [Exp. #147.]

DeltaPoint, Inc. *http://www.deltapoint.com/* Data/Process visualization software publisher—download a free image cataloger and graphic utility. (Mac/Win) [Exp. #146.]

Demand Systems Home Page *http://www.fishnet.net/~drumbra* Demand Systems sells computer software and hardware. They also carry the Jaguar and Lynx. [Exp. #146.]

DHL Worldwide Express *http://www.dhl.com/* Provides information on shipping services offered by DHL for all of the 217 countries that the DHL network serves. [Exp. #146.]

Digital Conversion Technology *http://navishow.ans.net/lab/m/mtownes* Sales, bids, quotations, and proposals. We search and deliver—you produce and sell. [Exp. #146.]

Digital Zone *http://www2.uplex.net/dzone/* Resource for buyers to contact vendors in the printing, advertising, service bureaus, and photography business. [Exp. #145.]

The Earth's Best World Wide Web Site *http://www.earthsbest.com/* The Web site for Earth's Best, the nation's only organic baby food, includes information about the company and products as well as articles on parenting, infant health and nutrition, environmental issues, and organic agriculture. [Exp. #146.]

eCesys, Inc. *http://www.alaska.net/~ecesys* Low-cost Pentium Systems optimized for NEXTstep, Win 95, and WinNT deployment. [Exp. #146.]

Echelon LonWorks Technology *http://www.lonworks.echelon.com/* Lon-

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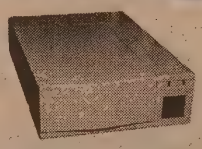

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Web Page Listings *continued...*

Works offers networking technology for building, home, industrial, and transportation automation. [Exp. #146.]

EIO: Electronics Information Online *http://www.eio.com/* A super surplus store. We buy and sell excess, discontinued, new, and used electronic components and computers. [Exp. #146.]

EZ Systems *http://register.com/drives* Tape and optical disk drives for sale or repair. Most major brands supported. [Exp. #146.]

Fast Forward Skate Shop *http://www.fast-forward.com/* Largest distributor of inline skates and accessories. Online guide to buying inline skates. [Exp. #145.]

Fisher Model And Pattern Works *http://www.wco.com/~fisher* Resin model kits of classic '50s and '60s racing cars. [Exp. #146.]

Flor De Manila Cigars *http://www.netins.net/showcase/fujicig/flordemanila.html* The most popular Cuban seeded Philippine hand made cigars available. Blended with a satisfying character with a hint of the exotic. [Exp. #146.]

Fogo e Paixao *http://www.earthlink.net/~fogo/* Brazilian introduction and matching agency online. [Exp. #147.]

Furnituremaker And Design *http://www.channel1.com/users/postma* Steve Postma Furnituremaker and Design specializing in custom veneer and curved furniture. [Exp. #144.]

Galt Technology Shareware Zone *http://www.galttech.com/* The leading site for quickly and easily downloading the latest shareware from the Web. [Exp. #145.]

Genoa Technology's Web Site *http://www.gentech.com* Testing solutions for printer emulations, facsimile (T.30), IrDA (Serian Infrared), IEEE 1284, and SNMP. [Exp. #146.]

Geoworks Home Page *http://www.geoworks.com* Information about Geoworks, a supplier of operating system software and applications for the emerging consumer computing device market. [Exp. #145.]

Gold Mountain Land *http://www.aimnet.com/~ayl/antelope.htm* Land investment opportunities with prices starting at 30¢ per square foot. [Exp. #145.]

Golden Sun Co. *http://www.clcr.com/goldensun/* Sunglasses for wholesalers and retailers. Offering thousands of models of sunglasses for the lowest price. [Exp. #146.]

Graphics Development International, Inc. *http://gdisoft.com/* GDI gives you tools to scan, design, edit, fill, merge, and print all your forms. [Exp. #147.]

Great Fax Cover Sheet Co. *http://emporium.turnpike.net/W/wortB/welcome.html* Unique products at great prices. Something for everyone even if you don't fax. [Exp. #146.]

Greek Hotel And Cruise Reservation Center *http://www.deltanet.com/bazaar/greece.htm* Your link to over eight thousand Greek hotels and cruises covering the Greece mainland and islands. [Exp. #146.]

Homes For Sale On The Internet *http://www.he.net/~bsonder/homes.html* Have some real estate to sell? Want to increase your audience? Advertise with Homes for Sale on the Internet. [Exp. #146.]

Hotel Emeraude Plage *http://www.well.com/user/frigate* Information on the Hotel Emeraude Plage on St. Bart's in the French West Indies. [Exp. #145.]

Iambic Software *http://www.iambic.com/iambic* Software for the Newton MessagePad. Contests, tips, and links to other Newton-related areas. [Exp. #145.]

Immigration And Visas *http://www.schulzlaw.com/~mschulz* Law offices of C. Matthew Schulz. Information on US visas and employment-based immigration. [Exp. #144.]

Information Broker *http://infobrkr.com/IB/DTP.h* Affordable desktop publis ing via B/W printed mate and the Web. [Exp. #146.

Instant $avings BBS *http www.liberty.com:80/hon couponbbs/Welcome.ht* A free BBS soon to ha free Internet email and home-based busine opportunity. [Exp. #146.]

Instant Wholesale Prici For 170,000 Comput Products *http://ww applied-computer.co* Applied Computer of S Jose lets users instan access pricing informati on over 170,000 comput products. [Exp. #146.]

International Chann Networks *http://www channel.com/* The premi provider of multilangua television programmin featuring over twenty-fo different language [Exp. #146.]

International Consulti *http://www.insist.co* Build a strong distrib tion/OEM channel Europe. Fluent in Germa French, and Dutch. Set branch offices in fo weeks. [Exp. #146.]

Investigative Resourc *http://www.lainet.com/~fa ind* The online brochure Investigative Resourc International, a full servi southern California inve tigative agency. [Exp. #145

Jeffe & Soeder *http. www.jeffe-soeder.com/* marketing communicatio firm specializing in hig technology companies. S our online consultatio [Exp. #147.]

Kamaaina's Best *http. planet-hawaii.con kambest/* Gift baskets fill with Hawaiian treats li passion fruit butter, ta pancake mix, coffees, tea and more. [Exp. #146.]

Kaua'i Exotix *http://plan hawaii.com/~exotix/* small tropical flower bus ness in Kaua'i doing all our business via the Inte net. [Exp. #144.]

LinkStor Home Pag *http://www.linkstor.com* P network and storage resell in Silicon Valley. [Exp. #143

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Fax: 310•301•4511

Online Guide

Web Page Listings *continued...*

LucasArts *http://www.lucasarts.com* The Web site for LucasArts Entertainment, developer and publisher of interactive entertainment and educational software. [Exp. #145.]

Luxcom, Home for Isochronous Networking *http://www.luxcom.com/* Provides Isochronous networking for isoEthernet, Ethernet, and Token Ring. [Exp. #147.]

Maxsoft-Ocron, Inc. *http://www.maxsoft-ocron.com* Maxsoft-Ocron, a leader in OCR software and toolkits. Visit us and download Wordlinx free. [Exp. #146.]

Mind Logic *http://www.xmission.com/~wwwads/mind/logic.html* CD-ROM disks, hardware, and video gear at wholesale and retail prices. Worldwide mail order. Freebies too! [Exp. #145.]

Mind Science Research Institute, Inc. *http://www.he.tdl.com/~msri* Delivers management and technology training for the lifelong learner. [Exp. #145.]

Miniman *http://www.mindifarm.com/midiman* Midiman's Web site consists of over twelve pages of product and company information, and an ftp site for files. [Exp. #146.]

Mobile Access *http://www.aimnet.com/~ayl/900.htm* Learn all about investing in the lucrative 900 telephone business and what it has to offer you. [Exp. #145.]

Mole-Richardson *http://www.mole.com* Hollywood lighting manufacturer, rental company, expendables store, movie memorabilia store [Exp. #145.]

Music Boulevard *http://www.musicblvd.com* A one-stop service where customers can listen to 30-second sound samples, view album art or artist photos, read reviews or biographies, and buy from an extensive music catalog. [Exp. #146.]

Mutual Fund Investing Home Page *http://www.ManhattanLINK.com/* Features weekly mutual fund rankings and trading system results. Also, online newsletter and links to other mutual fund research sites. [Exp. #146.]

Natural World *http://tlm.tlm.net/natwld.html* Natural World makes 100% nontoxic, all-natural, chemical-free products for cleaning, infant care, nutrition, and pet care. [Exp. #143.]

NetCity *http://www.netcity.com/* An electronic metropolis offering online shopping, personal and professional services, auto center, farmer's market, and entertainment. [Exp. #145.]

The Network Buyer's Guide *http://www.sresearch.com/* Created by Strategic Research Corp., this site is a central source for network and system administrators to gather information on storage and networking. [Exp. #147.]

Newer Technology *http://www.newertech.com/* Supplier of Mac peripherals and memory products. Grouped into four categories: acceleration, connectivity, memory, and PowerBook accessories. [Exp. #146.]

Nicolet: Instruments Of Discovery *http://www.nicolet.com/* A manufacturer of analytical instruments. Products include Fourier transform infrared and Roman spectrometers, microscopes, sampling accessories, and spectroscopy software. [Exp. #147.]

Novell Service & Support *http://www.aimnet.com/~yungi/lansol.html* Novell network specialists—CNE. We offer Novell-authorized network installation, service, and support. [Exp. #143.]

NTI Of California *http://www.net101.com/nti/* Performance, quality, and value with California's premiere long distance service for businesses and residents. [Exp. #145.]

NutriGenie *http://pages.prodigy.com/CA/nutrigenie/* Nutrition software for better health. Winner of Home PC Top 100 Products of the Year Award. [Exp. #146.]

O'Keefe World *http://www.okeefe.com* O'Keefe World is a full-service advertising agency. Bandwidth busting graphics. Idiotic image maps. All style, no substance. [Exp. #146.]

Online Islamic Bookstore *http://www.sharaaz.com* Finest books, videos, audios, software, and CD-ROMs on Islam. View descriptions, book reviews, screen captures, and book covers. [Exp. #145.]

Pacific International *http://www.pacintl.com/pacintl/* Specializing in Japanese/English internationalization (bid or contract). We are multiplatform capable. [Exp. #146.]

PC Physician *http://www.earthlink.net/~pcphysician/* For repairs and installation of PC hardware and software. For rates, info, and more, look here. [Exp. #146.]

The PC4 Zennet Home Page *http://www.zennet. com/* Come find out about T. Pascal and Associates and their wonderful hardware solutions. [Exp. #146.]

PCTravel *http://www.pctravel.com* or *http://www.nando.net/pctravel.html* Real-time online air reservation and ticketing service with encryption and free overnight delivery of tickets. [Exp. #143.]

The People's Place On The Web *http://www.People-Place.com* Your place for health, natural resources, personal and professional growth, nutrition, fitness, and fun. [Exp. #146.]

Photo Restoration, Retouching & Scanning Service *http://www.wp.com/PhotoRestoration* Highest quality and lowest prices for digital photo restorations. Quick turnaround, too. [Exp. #145.]

The Probe *http://www.theprobe.com/* Business to business network publication. Great offers on products and services. [Exp. #147.]

Rational Data Systems *http://www.rds.com* Just the basics so far, including employment and WWW contracting opportunities. Fancier stuff to follow. [Exp. #144.]

Recortec, Inc.'s Business Center *http://www.indus-*

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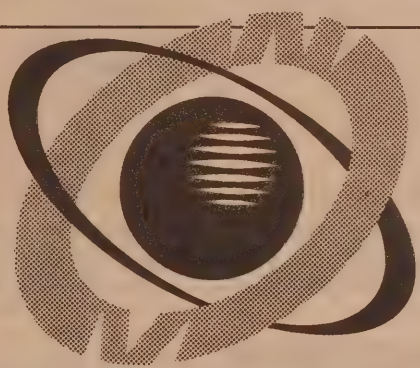

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Web Page Listings *continued...*

try.net/recortec Industrial rack mount computers, enclosures, keyboards, monitors, and printers. Web site includes descriptions and datasheets. [Exp. #146.]

Regent Press *http://www.sirius.com/~regent* A printer in Berkeley and publisher of *The Oracle* (Facsimile Edition) and *The Fringe Series.* [Exp. #144.]

Robert Lee Entertainment (RLE) *http://www.rle.com/~rle/index.htm* RLE is an independent film, video, and WWW page production company. [Exp. #144.]

Ross and Associates, Inc. *http://Miamirealestate.com/ross/* Miami and South Florida residential and commercial listings for anyone wishing to buy, sell, rent, or lease. [Exp. #147.]

Safeware, The Insurance Agency, Inc. *http://www.safeware-ins.com/* Insures computers against theft, fires, power surges, accidents, natural disasters, and earthquakes. Review details and apply. [Exp. #146.]

Secret Staircase Bookshop *http://www.secret-staircasebooks.com/* An independent bookshop specializing in children's books and mysteries for adults. [Exp. #146.]

Secrets Of Home Theater And High Fidelity *http://www.sdinfo.com/* Electronic magazine on home theater and high fidelity with reviews of equipment, feature articles, press releases, etc. [Exp. #145.]

Sextant *http://mind.net/wsirota/sextant/sextant.htm* / Distribution site for Sextant, shareware program that presents an environment for editing and using Netscape Navigator's bookmarks. [Exp. #145.]

Shamrock Base Corp. *http://wavenet.com:80/~shamy/* Offering base materials used in road construction and a downtown, L.A. concrete/asphalt dump site. [Exp. #146.]

Solomon Software *http://www.solomon.com/* Solomon's home page offers a single point of communications to resources within Solomon Software, a leading accounting software developer. [Exp. #145.]

Solutions Seminars *http://www.sol-sems.com* Seminars for technical communications specialists in the development of technical information products, marketing materials, technical training materials. [Exp. #145.]

Songwriting Consultants, Ltd. *http://www.earthlink.net/~songmd/* Hit songwriter Molly-Ann Leikin helps good songwriters become hit songwriters. Check out her Songwriter's Collaboration Network. [Exp. #144.]

Southwest Airlines *http://www.iflyswa.com/* Complete flight and fare info in a very easy-to-use format, make reservations online. [Exp. #145.]

StarComp *http://www.leonardo.net/starcomp/* Virtual Showbiz Software store—scripting writing, production scheduling, budgeting, and plot assistance. [Exp. #146.]

Stop Crime, Become A Tough Target *http://www.catalog.com/borelent* Personal protection devices. Stun guns, pepper sprays, alarms, crime prevention reports, and much more. [Exp. #145.]

Superior Stamp & Coin *http://www.amark.com/amark* Conducts auctions of individual/estate consignments of stamps, coins, manuscripts, fine arts, sports and space memorabilia. [Exp. #146.]

Swim At Home In An Endless Pool *http://www.endlesspools.com/~swim/* Swim or exercise "in place" against a smooth current adjustable to any speed or ability. The Endless Pool is only 8' by 15'. [Exp. #146.]

Team Sports Wear *http://www.teamsports.com/* Web site for first quality, licensed sports clothing and accessories, features CyberCash for secure purchases. [Exp. #147.]

TLC The Eye Center *http://www.laservision.com/TLC* The first Internet site dedicated to clinical excellence in Laser Vision Eye Correction. [Exp. #146.]

Toasted *http://www.berksys.com* Berkeley System's Toasted offers everything from traditional product listings, customer support, and general company information. [Exp. #146.]

Tubz *http://www.opendoor.com/Tubz/TubzHmPage.html* The largest selection of jetted and non-jetted bathtubs on the West Coast. [Exp. #146.]

Warp California, Inc. *http://www.warp.com/* Producers of Virtual Television products, site includes product demos. [Exp. #145.]

Wave Rider *http://hoohana.aloha.net/waverider/* Unique Hawaiian T-shirts for any surfer/paddler (water or Internet). Shirts are USA made. [Exp. #146.]

Windjammer Barefoot Cruises *http://www.windjammer.com* Offers descriptions of each ship in the fleet, plus a "News and Specials" section and faq about Windjammer. [Exp. #146.]

Wooden Castle Craftsman *http://www.woodencastle.com/* Custom-drawn blueprints and material quantity estimates for do-it-yourself'ers planning decks, gazebos, additions, and remodeling. [Exp. #147.]

Working Assets *http://www.wald.com/wa/wald* Working Assets provides ways for customers to be effective citizens and philanthropists. [Exp. #146.]

World Shopping & Information Network *http://www.wsin.com* Features brilliant colorful graphics to excite and entertain. Shopping, travel, entertainment, useful resource information, more. [Exp. #145.]

WovenHearts *http://www.wovenhearts.com/* Residential assisted living. Alternative to nursing home care for older men and women. [Exp. #145.]

(x)faktor Design *http://*

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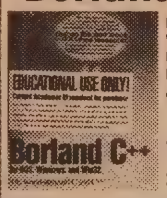

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4000M DX2-50 $1590

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4000M DX4-75 $1750

16 Bit Stereo Sound, Midi & SCSI, Dual Scan Color Intel DX4-75, 4-455, PCMCIA III

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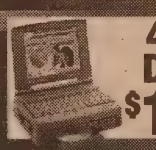

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Web Page Listings *continued*

sfaktor.com/xfaktor Specialized in traditional and electronic design implementation, including advertising, Logo, publication layout, and Web page design. [Exp. #146.]

Zadian Technologies, Inc. *http://www.zadian.com/* San Jose-based Zadian Technologies is a leading developer and manufacturer of test systems for the engineering and manufacturing of I/O peripheral devices. [Exp. #146.]

Zendex Corp. *http://www.zendex.com/* Zendex designs and manufactures microcomputer boards, systems, peripherals, and related products for the Multibus and PC Bus industry. [Exp. #145.]

BUSINESS INFORMATION

AttorneyNet *http://www.attorneynet.com/* An international resource for locating an attorney, including an extensive list of Internet legal sites. [Exp. #146.]

Career Network Magazine *http:// www.earthlink.net/car/eernet/* Online publication of the Career Network's CD-ROM magazine—informative articles, employment classifieds, resumes of hundreds of jobseekers, and color display ads. [Exp. #146.]

Commercial Law League Of America *http:// bankrupt.com/clla/clla.html* Information for those interested in bankruptcy or collections. CLLA, established in 1985, is the oldest creditor's rights organization. [Exp. #147.]

Computer ESP *http://www.uvision.com/* Quickly and easily find comprehensive, organized, up-to-date information on over twenty thousand computer vendors and dealers and their products. [Exp. #146.]

The Computer Price Cruncher *http:// www.killerapp.com/* Free computer price comparisons. One click finds the best among Bay Area stores. [Exp. #146.]

Consumer Mortgage Information Network *http://www.human.com/proactive.index.html* Dedicated to providing home buyers with timely and unbiased information relating to residential financing. [Exp. #145.]

Copyright Website *http://www.benedit.com* A practical copyright resource for netizens and Webmasters. Includes audio of famous copyright infringements. [Exp. #145.]

Credit Union Land *http://www.culand.com* A searchable index of credit unions you can join! [Exp. #145.]

EE/CS Mother Site *http://www-soe.stanford.edu/soe/ieee.eesites.html/* Links to EE/CS corporations, organizations, and schools. [Exp. #146.]

Home Owner's Page *http://www.weblink.com/homeowners/* A directory of contractors, plumbers, electricians, gardeners, and other professionals offering services to home owners. [Exp. #144.]

@Home PC-Biz Info *http://www.earthlink.net/~mspcbiz/ Make Money With Your PC!* author, Ms. PC-Biz, gives hints, success stories, and advice.[Exp. #146.]

NewWEB *http://www.m2.com/nw.html* World news, updated throughout the day, with an emphasis on computing, communications, and high tech. [Exp. #145.]

R.E.InfoNet—Real Estate Information Network *http://www.reinfonet.com/* An excellent resource for both buyer and sellers. Articles as well as homes for sale. [Exp. #146.]

Saludos Career Web *http://www.hooked.net.saludos/* Devoted exclusively to promoting Hispanic careers and education, supported by *Saludos Hispanos* magazine. [Exp. #146.]

SCOR-Net *http://www. scornet.com/* The Small Corporate Offering Registration Network. Dedicated to capital formation issues for small businesses. [Exp. #147.]

TechExpo WWW Directory Of Hi-Tech *http://www techexpo.com/* Directories of: science, engineering societies; technical/engineering trade magazines high-tech firms, products services; much more [Exp. #145.]

ENTERTAINMENT

A Film, Pen, & Brush Conspiracy! *http://www primenet.com/~fundi/index html* An Afrocentric byte from the cyber gallery o graphics, photos, and stories from HATARI's Design [Exp. #146.]

Aloha Dateline *http:/ www.aimnet.com/~ayl/alo a.htm* "I found love on the Aloha Dateline! It's a fun safe, exciting way to meet!" [Exp. #145.]

Artist Bros. Enterprise *http://www.cyberverse.com /~piero/artbros.htm* Episodic series, comedy sci-fi, and romance stories Mighty Morphin Powe Rangers information; an other interesting links [Exp. #146.]

Atomic Eye *http://www webcom.com/atomic/* Joi the continuing adventures o Scuff & Pineapple through out the metropolis of Lo Angeles. [Exp. #147.]

ATP Tour Online *http://atp tour.com* The most com prehensive tennis We page on the Internet, wit news and informatio about men's pro tennis [Exp. #145.]

Awesome Music Sit *http://emusic.com* Musi information, superfast brows ing, 40,000 album images Tons of fun. [Exp. #145.]

Batman Forever *http://ba manforever.com* Artwork trailers, storyboards behind-the-scene glimpses into the making c *Batman Forever*, and more [Exp. #143.]

Baudville *http://www bville.com/* The sceni route on the Informatio Superhighway. Art, enter tainment, and advertising [Exp. #147.]

Bay Area Movie Guid *http://www.movietimes.co* Bay Area Movie Guide offer movie listings, information reviews, links to movi

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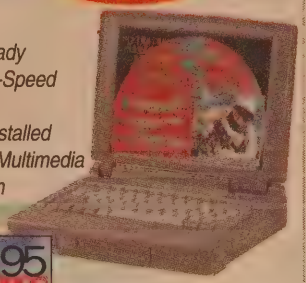

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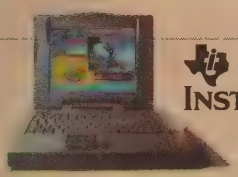

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A550CDS	Pentium™/75	8MB	524MB	Dual Scan	$2898.
A550C	Pentium™/75	8MB	524MB	Dual Scan	$2398.
A450CT	486DX4/75	4MB	340MB	Active Clr	$2348.
A450C	486DX4/75	4MB	340MB	Dual Scan	$1798.
5100CT	Pentium™/75	8MB	1.2Gig	Active Clr	$4798.

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Model	Processor	Ram	HD	Screen	Price
T1910	486SX/33	4MB	200MB	9.5" Mono	$998.
T1910CS	486SX/33	4MB	200MB	9.5" Dual Scan	$1398.
T1950CS	486DX2/40	4MB	200MB	9.5" Dual Scan	$1448.
T1950CT	486DX2/40	4MB	200MB	8.4" Active Clr	$1798.
T1960CS	486DX2/50	4MB	320MB	9.5" Dual Scan	$1598.
T1960CT	486DX2/50	4MB	320MB	8.4" Active Clr	$1998.
T2105	486DX2/50	4MB	250MB	9.5" Mono	$1098.
T2105CS	486DX2/50	4MB	330MB	10.4" Dual Scan	$1698.
T2155CDS	486DX4/75	4MB	520MB	10.4" Dual Scan	$2598.
T2155CDT	486DX4/75	8MB	520MB	10.4" Active Clr	$3298.
T2400CS	486DX2/50	4MB	250MB	9.5" Dual Scan	$1598.
T2400CT	486DX2/50	8MB	250MB	8.4" Active Clr	$1798.
T2450CT	486DX4/75	8MB	320MB	9.5" Active Clr	$1998.
T3400CT	486SX/33	4MB	120MB	8.4" Active Clr	$1698.
T3400CT	486SX/33	4MB	250MB	8.4" Active Clr	$1798.
T3600CT	486DX2/50	8MB	250MB	8.4" Active Clr	$2498.
T3600CT	486DX2/50	8MB	500MB	8.4" Active Clr	$2698.
T4800CT	486DX4/75	8MB	500MB	9.5" Active Clr	$2698.
T4850CT	486DX4/75	8MB	500MB	10.4" Active Clr	$3198.
T4850CT	486DX4/75	8MB	810MB	10.4" Active Clr	$3298.
T4900CT	Pentium™/75	8MB	810MB	10.4" Active Clr	$4498.

75MHz Pentium™ Processor

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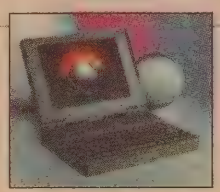
- Multimedia Performance
- 810MB
- AccuPoint™

Model	Processor	Ram	HD	Screen	Price
T2100	486/DX250	4MB	250MB	9.5" Mono	$1198.
T2100CT	486DX2/50	8MB	330MB	8.4" Active Clr	$2098.
T2110CS	486DX4/75	4MB	350MB	9.5" Dual Scan	$1698.
T2130CS	486DX4/75	4MB	520MB	10.4" Dual Scan	$2198.
T2130CT	486DX4/75	8MB	520MB	10.4" Active Clr	$2798.
T400CDT	Pentium™/75	8MB	810MB	10.4" Active Clr	$3998.
T400CS	Pentium™/75	8MB	810MB	10.4" Dual Scan	$2998.
T610CT	Pentium™/90	8MB	720MB	9.5" Active Clr	$3998.



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ASCENTIA 950 Notebook

Model	Processor	Ram	HD	Screen	Price
910N	486DX4/75	8MB	510MB	10.3" Dual Scan	$2198.
910N	486DX4/75	8MB	700MB	10.3" Dual Scan	$2398.
910N	486DX4/75	8MB	510MB	10.4" Active Clr	$2798.
910N	486DX4/75	8MB	700MB	10.4" Active Clr	$2998.
950N	Pentium™/75	8MB	500MB	10.4" Dual Scan	$2598.
950N	Pentium™/75	8MB	800MB	10.4" Dual Scan	$2798.
950N	Pentium™/75	8MB	1.2GB	10.4" Dual Scan	$3248.
950N	Pentium™/75	8MB	800MB	10.4" Active Clr	$3798.
950N	Pentium™/75	8MB	1.2GB	10.4" Active Clr	$4198.

90MHz Pentium™ Notebook PCI

INTRODUCING The HP OmniBook 5000

Model	Processor	Ram	HD	Screen	Price
5000CT	Pentium™/90	8MB	1.0GB	10.4" VGA TFT	$5398.
5000CTS	Pentium™/90	16MB	1.0GB	10.4" SVGA TFT	$6198.
4000C	486DX4/100	4MB	520MB	10.3" Dual Scan	$2498.
4000CT	486DX4/100	4MB	520MB	10.4" Active Clr	$3098.
4000CT	486DX4/100	8MB	810MB	10.4" Active Clr	$3398.
4000C	486DX4/100	8MB	810MB	10.3" Dual Scan	$2798.

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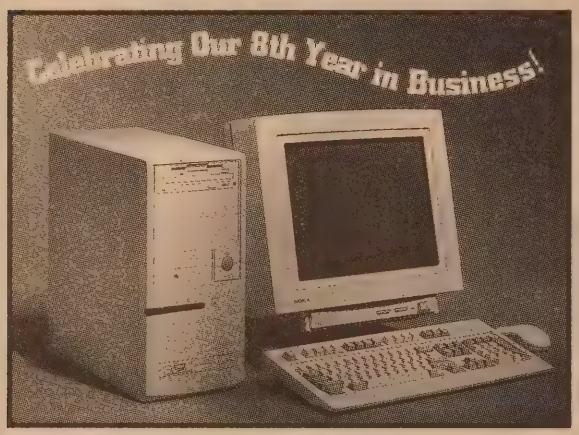
We regret any inconvenience this change in focus will have on our extensive Mars Computers customer base. However, we find it imperative that we take these steps to ensure that we d not miss the opportunities currently available to Sys Technology in an ever expanding market for Sys Technologyproducts. Under this new focus we will be supporting Mars customer from the Sy Technology headquarters office and main production facility in Cypress. Mars customers should contact that facility.

With the November issue of *MicroTimes* we will be advertising and marketing only Sys Technology's FCC class B certified "Sys Performance" and "Sys Business" systems. Sys Performanc systems have been advertised in *PC Magazine* and have won acclaim from that publication, including Editors' Choice and other awards. In the September 26 issue of *PC Magazine* one of our Sy Performance P133T systems was awarded an Honorable Mention for its "superb job of optimizing (its) cutting-edge components" and producing the "best Winstone 95 score in this (66 system roundup"- and the highest Winstone 95 score they have recorded for a Pentium® processor 133MHz system. One of these systems was also very favorably reviewed in *Computer Shoppe* (October issue). More data follows below. Bottom line, if you're looking for truly top performance, we're the place to call or visit!

We look forward to serving you and thank our many loyal Mars customers for their understanding during our transition to *A New Focus.*



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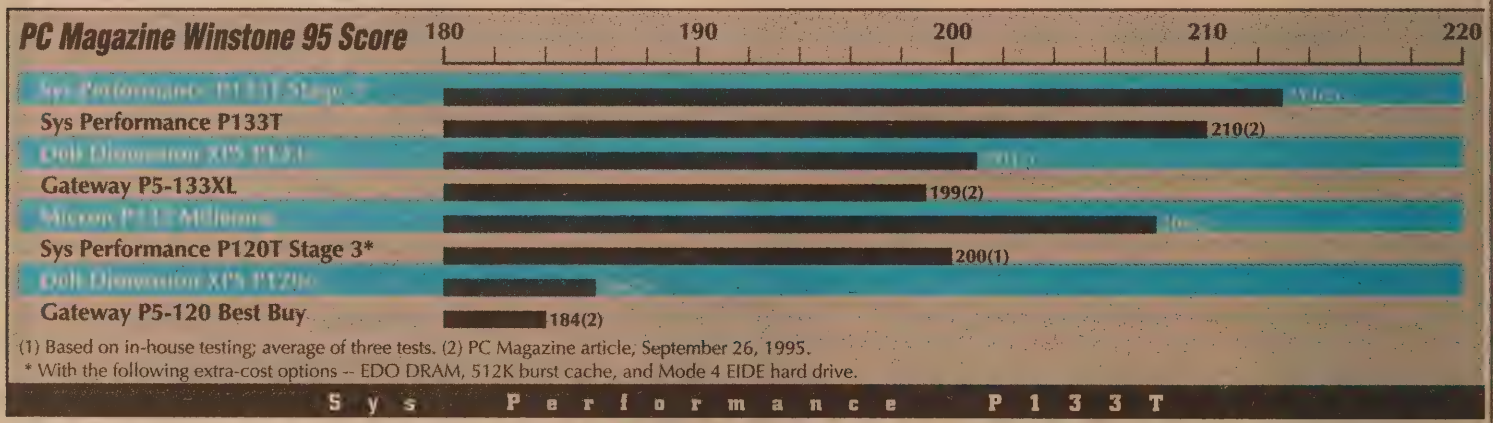

(1) Based on in-house testing; average of three tests. (2) PC Magazine article, September 26, 1995.
* With the following extra-cost options -- EDO DRAM, 512K burst cache, and Mode 4 EIDE hard drive.

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Online Guide

Web Page Listings *continued*

company Web sites, videos, sound clips, publicity photos, and general cinema information. [Exp. #144.]

Big Mouth Publishing *http://www.bookfair.com/publishers/bigmouth/biz/* Publishers Page featuring audio "Instant Guts!", guide to intelligent risk taking in business, creativity, relationships. [Exp. #146.]

BONG Bull *http://www.au.com/bong/* Weekly encyclical of the Burned-Out Newspapercreatures Guild. Newsroom humor for journalists and media junkies. [Exp. #146.]

Boulevards *http://www.boulevards.com/* Quality information about arts, entertainment, and contemporary culture and politics in cities around North America. [Exp. #147.]

Brazilian Mall *http://www.BrazilianMall.com/Brazil* The first Brazilian commercial site, art gallery, business center, newsstand, travel agency, and more. [Exp. #144.]

Burn:Cycle *http://www.burncycle.com/* Explore the wicked world of Burn:Cycle. Use your brain or lose your mind. [Exp. #146.]

California Shakespeare Festival *http://www.via.net/~csf/* Complete information about this season's performances as well as our year round programs. [Exp. #146.]

Castle Wolfric *http://www.best.com/~wooldri/* Sci-Fi Fantasy links, Xanth home page, Trek images, HTML Writers Guild, and more. [Exp. #146.]

Ceolas Celtic Music Archive *http://celtic.stanford.edu/ceolas.html* Home of Celtic music on the net, including tunes, artist profiles, sound samples, resources, etc. [Exp. #143.]

Classic Rock All Stars *http://www.webcom.com/~gsmmedia/crastars* Members from Iron Butterfly, Rare Earth, Sugarloaf, and Spencer Davis Group present their Summer '95 Tour. [Exp. #144.]

Crystal Rain Media Entertainment *http://www.earthlink.net/~crystal* "Hip Hop Animal Rock," award winning aerobic video for children. Sound and video clips. [Exp. #144.]

Cybercize With The Cyber-Set *http://www.physics.sfsu.edu/grad/lwilliam/cyberset/cyberset.html* Ten fun and easy at your computer exercises with the Cyber-Set—an online comedy team. [Exp. #145.]

Cybertown *http://www.cybertown.com/cybertown* Cybertown is a 21st century off-world electronic virtual community that provides a rich mix of entertainment, information, and commerce. [Exp. #145.]

Cybertzara *http://www.webcom.com/~cybertza/* Multimedia by Debroah Jaffe's Master/Slave Relationship and her new CD-ROM, *Smut Picture Racket.* [Exp. #146.]

Discover Starving Artists *http://www.starving.com/* An interactive art gallery featuring photography and paintings plus a tour of 19th century Paris. [Exp. #145.]

Edward "Equalizer" Woodward *http://www.deltanet.com/bazaar/equalize.htm* Information and enthusaists' group. Stay up to date with other fans, the Eq/EW International Bullet, and more. [Exp. #146.]

Fadein *http://users.aol.com/anniraff/* Access site for FADEIN, freeware version of how-to screenwriting book; also other screenwriting links. [Exp. #147.]

Flames Magazine *http://www.gold.net/flames/* Flames Web Page features an interactive story that uses the hypertext capabilities of the WWW to achieve multiple narratives. [Exp. #146.]

FLASHERS *http://www.cais.com/artcomic.flashers/html* Daily comics by Elliot Feldman. Bring your own trench coat. [Exp. #146.]

Freehead Web Page *http://www.infinet.com/~ngsippel/freehead.html* New band featuring Jim Smith of the original *Ren & Stimpy Show!* Info, gig schedules, etc. [Exp. #145.]

Freshly Baked Cooked Book *http://www.primenet.com/~freshly/* L.A.-based psychedelic blues/funk/jazz/reggae/blue grass/punk band. This site contains artwork, lyrics, sound clips and recipes. [Exp. #146.]

Gigaplex *http://www.gigaplex.com/wow* A whopping arts & entertainment web magazine featuring film, TV, music, theater, books, and celebrity interviews. [Exp. #144.]

The Happy Happy Joy Joy Web Site *http://www.infinet.com/~ngsippel/hhjj.html* Classic Ren & Stimpy fans should check this out. Remember when R&S was good? We do. [Exp. #147.]

Hotel California *http://kincyb.com/* Check into the friendliest hotel in the West. Full of Internet games, 24 hrs. chat, and adult files. [Exp. #144.]

Hotnet Entertainment *http://starone.com/hotnet* Adult entertainment. Twenty-one and over are welcome. [Exp. #146.]

Idea Futures *http://if.arc.ab.ca/IF.html* Bet on 150+ science, computer, and social controversies. Won major prize for best Web site. [Exp. #145.]

International Channel *http://www.I-channel.com* Unique multicultural, interactive, multimedia experience combining video, audio, and animation. [Exp. #145.]

International Home Exchange Network *http://www.magicnet.net/homexchange* Listings of home exchange opportunities, local cost vacation rentals, Bed & Breakfasts, "mom and pop" hotels, and more. [Exp. #143.]

Irvine Harvest Festival 95 *http://www.deltanet.com/bazaar/harvest.htm* Festival activities, entertainment schedules, festival map, and discount coupon to the festival. [Exp. #146.]

K-Fone's Hot Interactive Voice BBS And Party Place *http://www.kfone. com/* Browse men and women throughout Southern California. Contact them free.

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Online Guide

Web Page Listings *continued...*

Learn more about voice mail and more. [Exp. #146.]

Kaleidospace Independent Internet Artists *http://kspace.com/* Promotes, sells, and places work by independent artists, musicians, writers, performers, filmmakers, and software developers. [Exp. #146.]

The Kinte Space *http://users.aol.com/Wilhite213/kinte.html* A quasi-monthly publication of literary presentations downloadable as free multimedia PC applications. [Exp. #147.]

@LA *http://emporium.turnpike.net/A/atLA/* The most complete cyberspace guide to sites with a realspace presence in the LA area. [Exp. #144.]

LAcon III *http://sundry.hsc.use.edu/lacon3/* Web site for the World Science Fiction Convention coming to Anaheim in 1996. [Exp. #144.]

Lancaster Professional Baseball Club *http://www.av.qnet.com/~reggieb/baseball.html* Follow the California League's newest Class A baseball team. affiliated with the Seattle Mariners. [Exp. #146.]

Loser Love Songs *http://www.slip.net/~mbutler/index.html* Home of San Francisco power-pop band the Flex-a-Pleasers. Contains audio of every song in the catalog, more. [Exp. #143.]

Magnolia Jazz Band *http://www.MagnoliaJazz.com/* Over twenty years jazzing up special events throughout SF Bay Area. [Exp. #144.]

Match.Com *http://www.match.com/?mt* "We met on the Net!" Cyberflirting, email chemistry, and online romance. [Exp. #146.]

Merger *http://www.wp.com/Merger/home.html* L.A. area original Rock and Roll band. Info about the band and upcoming gigs. [Exp. #146.]

Mission Cliffs *http://www.mission-cliffs.com/mission-cliffs/* New indoor rock climbing center in San Francisco featuring impressive 50' high overhanging walls. [Exp. #145.]

Montreal World Film Festival *http://www.ffm-montreal.org* Site for the Montreal World Film Festival: bilingual descriptions, filmographies, schedules. [Exp. #146.]

Movies.net *http://www.movies.net/* The simplest movie address in cyberdom. Comprehensive, industry directory. Showtimes, promo's, reviews, previews, and more! [Exp. #146.]

Multiworld Magazine *http://www.jnw.com.mw/index.html Multiworld* is a multimedia, multilingual magazine published bimonthly via the Web. [Exp. #144.]

Mystic Sports Journal *http://www.sirius.com/~reg ent/MSJ* Spinmeister Jim Webster does sports like you've never seen it. [Exp. #144.]

NewType Gaming Magazine *http://www.newtype.com/NewType* Filled with information on graphic video games and virtual reality. Free stuff, latest news, and ravs in an eye-popping 3-D rendered environment. [Exp. #146.]

Nightflight Essential Guide To New York/Los Angeles At Night *http://www.echonyc.com/~voice* The Nightflight Guide features recommendations for the hippest nightclubs, eating, drinking, and gaming establishments in New York and Los Angeles. [Exp. #144.]

Obscure Research Labs *http://140.249.8.212/ORL/* Specializing in: UFOs, time travel, paraphysics, matrix technology, disinformation tracking, all the answers. [Exp. #143.]

One Live To Laugh *http://westworld.com/~nosnorba/* Independent film about a boy with dyslexia trying to make it in the stand-up comic world. [Exp. #147.]

Optical Illusions *http://www.lainet.com/~ausbourn* A collection of famous optical illusions presented in a gallery format. Informative and educational. [Exp. #145.]

Relayer *http://bbs.annex.com/relayer/gate/htm* Come and play with Relayer. Using Netscape 1.1 codes to provide audio, visual, and weirdness. [Exp. #145.]

Rock And Roll Digital Gallery *http://www.hooked.net/julianne/index.html* A digital gallery featuring poster art and images with rock 'n' roll as the theme. [Exp. #143.]

Rocktropolis *http://underground.net/Rocktropolis* Visitors can attend chat sessions with musicians, hang out backstage, hear new songs, send in photos, and much more. [Exp. #146.]

RockWeb Interactive *http://www.rockweb.com/* Interactive music service, band home sites, chat, WebZine, interviews, and concert calendars. [Exp. #146.]

Route 66 Los Angeles Webstation *http://www.losangeles.com* Find information about movies in theaters, on TV, and on video. This is a locally focused site supported by layers of global information. [Exp. #144.]

Science Fiction Now *http://www.science-fiction.com/* Buy, sell, and rate the science fiction stories from around the country and the globe. [Exp. #146.]

Sega Web *http://www.segaoa.com* Product information and graphics from the interactive king. Contests for prizes. [Exp. #144.]

Serenity *http://www.tecnation.com/serenity/* [Exp. #144.]

SFbuzz *http://www.soos.com/sfbuzz/* San Francisco theater and movie reviews, with the latest gossip and links to San Francisco. [Exp. #147.]

Solomon Speaks *http://pages.prodigy.com/CA/momonk/Solomon.html* Free WWW service kind of like "Dear Abby" or "Ann Landers." [Exp. #145.]

Split *http://www.split-news.com/travel/* Wet your wonderlust with Split's saucy new blend of international travel news, views,

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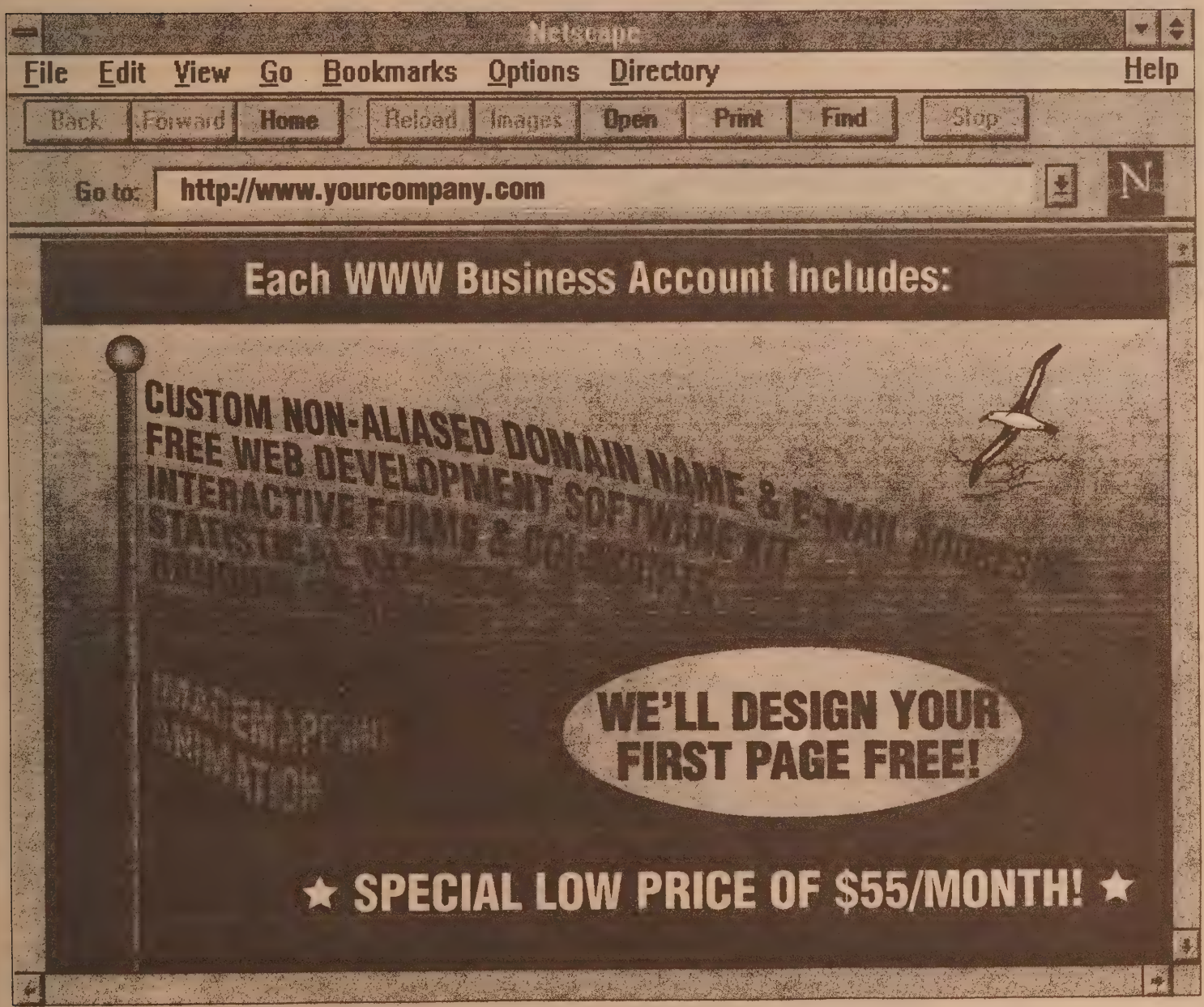
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Online Guide

Web Page Listings *continued...*

and reviews. [Exp. #147.]

Sports World Internet *http://www.sports-world.com/sports/home.html* Live Sports Chat, $1000 contest, fantasy football league, user articles. Sports experts and novices welcome. [Exp. #144.]

Susan Sutton Trio Home Page *http://ocf.berkeley.edu/~daaron/trio.html* The home page of the Susan Sutton Trio, a progressive and upbeat Latin-inspired jazz band in the North Bay. [Exp. #145.]

Topanga Canyon Rotisserie League *http://bcf.usc.edu/~kbrennan/index.html* Follow the fantasy baseball league here, complete stats, transactions, plus hotlinks to numerous baseball sites. [Exp. #145.]

Tripod *http://www.tripod.com/* Ready for the real world? Tripod provides tools for life—travel, money, health, living, work, and community. [Exp. #147.]

UNCAT: The Catalog Of UNCATaloged Titles *http://www.sapphire.com/UNCAT/* Brochures, books, catalogs, newsletters, videocassettes, and audio cassettes not generally available in a bookstore or library. [Exp. #143.]

The Unofficial Heckler And Koch USP Home Page *http://www.priment.com/~tlau/usp/usp.html* Info on the H&K USP pistol and general information of interest to all shooters. [Exp. #146.]

Venice Beach, California *http://www.mediaonline.com/bizads/venicebeach.html* Celebrate Venice's 90th anniversary in this art community including fitness events in world-famous Muscle Beach. [Exp. #144.]

Wave Action Surf Magazine *http://www.waveaction.com/mag* Surfing from around the globe featuring photos of some of the world's best new school surfers captured by industry photographers. [Exp. #144.]

Welcome To WOL On The Web *http://www.cris.com/WOL* The home of *Windows OnLine* and the *WinOnLine Review* (online magazines) commercial and shareware reviews. [Exp. #146.]

World Conquest *http://dnai.com/~conquest* Popular two- to twelve-player wargame (WWII) w/GUI (shareware), hourly turn processing. [Exp. #146.]

XCENTRIX *http://www.servtech.com/public/sproing* An eclectic zine integrating a plethora of genres including art, music, fashion, gossip, drag queens, and more. [Exp. #146.]

XROADS *http://xroads.wr.usgs.gov/Welcome.html* Links to US Geological Survey Web sites. A way to learn about earth science and the USGS. [Exp. #143.]

The ZenMOO Home Page *http://www.zennet.com/html/zenmoo.html* Amid the sounds of chanting and gongs, you have come upon the glorious ZenMoo. [Exp. #146.]

ORGANIZATIONS

American Film Institute *http://ww.afionline.org/* AFI's Web site provides users with information about the institute's programs and activities, including the AFI Conservatory. [Exp. #147.]

American Sightseeing International *http://www.sightseeing.com/* ASI, a global association of tour companies, offers worldwide tourism information. Email: *info@sightseeing.com.* [Exp. #145.]

ASSE—Greater San Jose Chapter *http://www.best.com/~assegsjc* Information, links on environmental, safety, and health issues and the American Society of Safety Engineers. [Exp. #145.]

Bay Area Volunteer Information Center *http://www.meer.net/users/taylor/* Lists hundreds of volunteer opportunities with San Francisco Bay Area non-profit organizations. [Exp. #145.]

Berkeley-East Bay Humane Society *http://www.ccnet.com/~bebhs* Photo tour and information about our animal shelter and veterinary hospital. (Netscape 1.1 recommended.) [Exp. #146.]

California Association Of Residential Care Homes *http://www.hooked.net/users/rallap/index.html* Nonprofit association of care providers, current list of vacancies in Santa Clara County, referrals. [Exp. #143.]

CERA Research *http://www.cera.com* Web site for embedded systems engineers and programmers, includes Electronic Engineer's Internet, 1995 report on engineers and programmers on the net. [Exp. #145.]

Creative Learning Stroke Support Site On The Web *http://www.tpoint.net/creative/* Creative Learning publishes multimedia software to help rehabilitate language after a stroke or other neurological impairment. [Exp. #145.]

Cupid's Network, Inc. *http://www.cupidnet.com/cupid* Network of singles organizations, dating services, matchmakers, and personal ads. Many ads from women. [Exp. #145.]

De Anza College *http://www.deanza.fhda.edu/* De Anza College programs, services, community events, class schedules, and much more to explore! [Exp. #145.]

Greenbelt Alliance *http://www.greenbelt.org/gba* Everything about the Bay Area's greenbelt of open space: maps, outings, issues, factsheets. Fight urban sprawl! [Exp. #143.]

History Computerization Project *http://www.history.la.ca.us/history* This Project includes: request forms for a free History Database tutorial, photos on display, and directories of historical resources. [Exp. #144.]

International Food Information Council *http://ificinfo.health.org* or *gopher://ificinfo.health.org* The International Food Information Council (IFIC) Foundation offers up-to-date facts on food safety and nutrition. [Exp. #144.]

National Air And Space Museum *http://www.nasm.edu* Research

continued on page 85

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W.D.	1.6GB	$352

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Mitsumi 4x FX-400	$129
Toshiba 4x 5302B	$149
Teac 6x CD56E	$229

Case

Mini Tower w/230W.	$35
Middle Tower w/230	$53
Full Tower w/230W.	$68

Modem

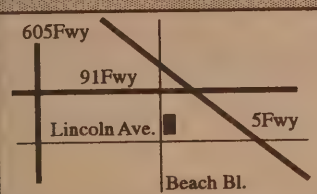
14.4 Int.	$39
14.4 w/Voice	$49
28.8 Int.	$110
US R. 28.8 Int.	$189

Keyboard

Focus 2001	$29
Focus 7000	$34
Focus 8000	$36
Focus 9000	$45
MS Natural	$75

Networking

16 Bit Ethnet Combo	$26
9 Ports Hub	$110



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- 486DX2-66 VLB Green Pentium Ready 256k $113.00
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- 1.44 MB FDD

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DX2-80 5V $47.00

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28.8K $110.00

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• HP DeskJet 660C	$395.00	• HP LaserJet 5P	$825.00
• HP DeskJet 850C	$525.00	• HP LaserJet 4 Plus	$1345.00
• HP DeskJet 1200C	$950.00	• HP LaserJet 4V	$1830.00
• HP 4SI	$2795.00	• HP4MV	$2699.00

MOTHERBOARDS

Intel Zappa $210.00
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- 486 DX4 - 100 MHz $89.00

AMD

- 486 DX2 - 66 MHz $47.00
- 486 DX2 - 80 MHz $53.00
- 486 DX4 - 100 MHz $83.00
- 486 DX4 - 120 MHz $99.00

Cyrix

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- 486 DX2 - 80-5V $47.00

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- Sony Quad Speed IDE $119.00
- Toshiba Quad Speed IDE $135.00
- Teac 6X Speed IDE $215.00
- Panasonic Quad Speed SCSI $165.00
- Sony Quad Speed SCSI $179.00

SOUND CARDS

- Sound Blaster 16 Bit $66.00
- Sound Blaster 16 Bit SCSI II $100.00
- Sound Blaster Awe 32 $165.00/ $225.00
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- BTC 16 Bit $40.00

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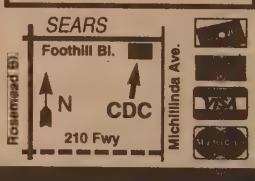

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Online Guide

Web Page Listings *continued from page 80...*

resources, learning materials, info; event calendar; museum tour; Center for Earth and Planetary Studies; more. [Exp. #145.]

Navy Engineering Field Division Environmental Department *http://ivory.nosc.mil/~saundel/default.html* Environmental Dept. Web Page provides information about Navy and Marine Corps installations whose environmental cleanup programs are managed by Southwest Division. [Exp. #145.]

OCSUG Home Page *http://halide.acs.uci.edu/* Home page of the Orange County Sun User Group. [Exp. #143.]

Pacific Lutheran University *http://www.cs.plu.edu/tour/tour.html* A virtual tour of Pacific Lutheran University's campus is as close as your computer screen. [Exp. #145.]

Podiatric Medicine And Surgery Network *http://www.aimnet.com/~rwunder/podmet.htm* Information for studying and practicing podiatrists, geared toward The California College of Podiatric Medicine. [Exp. #145.]

Spectrum Virtual University *http://www.pacificnet.net/~spectrum/campus* Progressive "virtual university" offers free classes via the Internet on subjects from mainstream to alternative. [Exp. #145.]

U.S. Navy Recruiting Command *http://www.navyjobs.com* Browse through selected topics, including Jobs in the Fleet, Medical Jobs, Worldwide Travel, and Benefits. [Exp. #145.]

West Coast Online *http://www.wco.com/* West Coast Online's home page. [Exp. #145.]

PERSONAL HOME PAGES

April's Cell Tech Page *http://www.calypso.com/april* A great location to visit to learn more about Health and Wealth Opportunities with Super Blue Green Algae. [Exp. #146.]

AYL Home Page *http://www.aimnet.com/~ayl/homey.htm* A home page full of exciting links to unique places and great invest opportunities. [Exp. #145.]

Bob Bickford *http://www.well.com/Community/rab/index.html* The still-evolving home page of a Professional Wild-Eyed Visionary. [Exp. #145.]

Bob Koster's Home Page *http://www.leonardo.net/rkoster/* My URL is history, classic cars, classic music, cave paintings, and cinema and its history. [Exp. #146.]

Cindy's Home Page *http://www.pacificnet.net/~roncin* [Exp. #145.]

Doug Michael Home Page *http://www.ccnet.com/~dmic27* This site deals with original music by composer Doug Michael and includes sound samples, release info, and cool music links. [Exp. #146.]

Douglas's Home Page *http://www.primenet.com/~douglask/* If you are interested in probation or X-Ray technology leave a note here. Links to many legal sources. [Exp. #145.]

Ed's Web Place *http://www.netgate.net/~embier* Find interesting links to my favorite topics: scuba, movies, sports, send me email. [Exp. #147.]

Garden Songs *http://www.geopages.com/Paris/1416/soos.html* Poetry by SOOS (Strong Opinions On Success). [Exp. #146.]

Greg's Point Reyes Wild Life Home Page *http://users.aimnet.com/~winter/ptreyes.htm* Wild life that can be seen at or near the Point Reyes National Seashore in Northern California. [Exp. #146.]

Healthy Flying *http://galaxy.einet.net:80/galaxy/Leisure-and-Recreation/Travel/diana-fairechild/healthy.html* Info about jet lag, healthy flying, and other air travel-related issues. [Exp. #145.]

Home Page Of Robert Capps *http://www.ccnet.com/~rc* An ever-changing collection of cool links and information on setting up your own home page. [Exp. #145.]

Hypnotherapy By Rosa Kitchen *http://www.he.tdl.com/~kitchen* Calm, calmer, calmest. Develop a solid, unshakable personal power. Heal from within through hypnosis. [Exp. #143.]

I'll Have Some Fries With Those Beastie Boys *http://www.hooked.net/users/clayton* Save Mumia Abu-Jamal, Beastie Boys, Aeon Flux, Burrito, Pulp Fiction, personal bio. [Exp. #146.]

Kerry Garrison's Home Page *http://www.delta.net/users/garrison* Links to Perl programming and Web development information, cool sites, daily newspaper. [Exp. #147.]

Larry Robinson's Genealogy Forms *http://www.wp.com/FOLDEE/* Source for unique genealogy supplies and home of the FOLDEE, a paper recycling center. [Exp. #146.]

Lynda Williams Home Page *http://www.physics.sfsu.edu/grad/lwilliam/lwilliam.html* Physics graduate student by day, cabaret performer by night, Lynda Williams calls herself a "Science Entertainer." [Exp. #145.]

Magic Arcs' Web Page From Hell *http://users.aol.com/magicarc/private/index.html* Cool site with lots of links, games, and software reviews. Netscape Enhanced. [Exp. #147.]

Mark Holt's Home Page *http://www.sun.com/sunsoft/cdware/mark.html* Sun Microsystems and Solaris links, interview with Yahoo creators, and other cool links. Updated weekly! [Exp. #145.]

Marko's Main Menu *http://www.inow.com/~marko/marko.html* Come and see, hey, it's free. [Exp. #146.]

Mike Russ's HomePage *http://www.primenet.com/~laurus* Tons of cool stuff with the Web's most complete list of why some people should die. [Exp. #145.]

Mishworld *http://www.earthlink.net/~mish* Harmful nonsense, links to strange things, poetry, and other fun but useless information. [Exp. #146.]

Myers Information Services *http://www.weight.com* Information on weight control and eating disorders written for the layman by a physician that treats both. [Exp. #146.]

Nabeel Ibrahim's Home Page *http://www-leland.stanford.edu/~ibrahim* Take the EE Purity Test! [Exp. #146.]

Ramsey Ksar Home Page *http://pandora.library.ucsb.edu/~ramsey* An innovative personal home page with great links, my resume center, and a short bio. [Exp. #146.]

Robert Altman's Classic Rock Photography And What Not Shop *http://www.cea.edu/robert/* Altman's shooting life: Janis Joplin, the Stones, Jim Morrison; portraits/stories of Joe Montana, Groucho Marx. [Exp. #145.]

Rogelio's Home Page *http://pages.prodigy.com/CA.talldude/* This page has BBS numbers for the Los Angeles Area 213, 310, and 818 area codes. Also contains links to useful files and X-files Web pages. [Exp. #147.]

RVL Sci-Fi HomePage *http://www.csun.edu/~hbcsc093/rvl.html* Links to many science fiction sites, 3-D computer graphics and raytracing, and some other cool stuff. [Exp. #145.]

Steve's Hot Stuff! *http://www.sonic.net/~stephen/* Places to explore, useful links for finding helper apps, freeware, and shareware. User group info. [Exp. #144.]

Trav's Home Page *http://www.isc.sjsu.edu/b/r/twise/index.html* Lists of hot lists, links to amateur radio resources, and other fun stuff. [Exp. #146.]

Primenet
Services for the Internet

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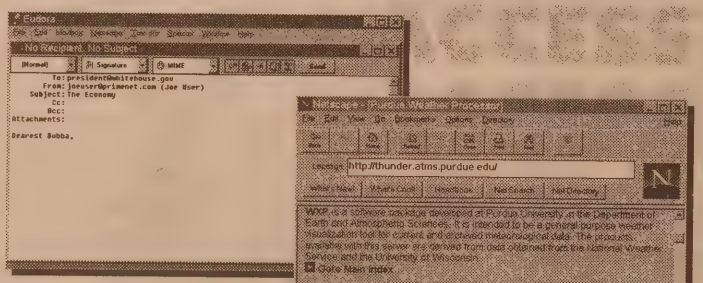

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Santa Ana:	(714)285-1111	San Juan Capistrano	(714)488-2000
San Bernardino	(909)386-5700	Victorville	(619)951-0511

* Prices may differ in each city

Call (800)4 NET FUN

E-Mail: info@primenet.com
http://www.primenet.com/

Online Guide

Web Page Listings

Will Ussery Home Page *http://www.slip.net/~wussery/* Designer of Ecco Pro templates. Ecco Pro is a leading Windows-based PIM. [Exp. #147.]

XOS *http://www.webinc.com/xos/* The one and only adult entertainment magazine published on CD-ROM monthly. [Exp. #146.]

POLITICAL/SOCIAL

100 CC *http://www.jodi.org/100cc/* Binhex, Commando Solo, live Cybersupremacist, General Surgeon news, CC Baklava Top 100, Betalab 2.0 [Exp. #147.]

6th International Conference On Computers In Agriculture *http://www.agen.ufl.edu/~fzazueta/* Conference, in Cancun, Mexico, June 11–14, 1996, will provide a forum for agriculture-related professionals to exchange information on applications and developments in the use of computers in agriculture. [Exp. #146.]

African Connections *http://www.melanet.com/melanet/connections* The Web site contains information on the *African Connection* TV series, a listing of available programming, forms for online feedback, news, and links to related organizations. [Exp. #145.]

Alternative Family Project *http://www.sfsu.edu/~counsel/* Provides affordable family therapy to San Francisco Bay Area families with gay, lesbian, bisexual, or transgendered members. [Exp. #147.]

American Association Of University Presses *http://aaup.pupress.princeton.edu:70/* Offers online catalogue of over forty-nine thousand scholarly books in print at university presses. [Exp. #146.]

Association For The Electrically And VDT Injured *http://www.isy.liu.se/~tegen/febost.html* Information for persons who suffer from environmental illness related to exposure to electromagnetic fields. [Exp. #146.]

Bacard's Privacy Page *http://www.well.com/user/abacard* Author Andre Bacard provides practical documents and links to protect your computer privacy. [Exp. #145.]

Bad Information Base *http://www.well.com/user/jmalloy/* Information catalogued, and organized in a definitive database that contains words of wisdom about subjects such as religion, technology, body odor, computers, and toilet paper. [Exp. #146.]

The Bionomics Institute *http://www.bionomics.org/* Changing the paradigm from economy-as-machine to economy-as-ecosystem. [Exp. #147.]

Burlingame On-Line *http://www.spectrumnet.com/burlingame.html* Burlingame On-Line provides news, information, and shopping for the city of Burlingame and surrounding communities. [Exp. #146.]

Burlingame On-Line PEZ Page *http://www.spectrumnet.com/pez/* Largest display of PEZ dispensers on the West Coast, includes history, facts, and PEZ store. [Exp. #146.]

California Libertarian Party *http://www.lp.org/lp/ca/lpc.html* Alternative politics for the golden state. [Exp. #145.]

Capnet Gateway On-Line Service *http://turnpike.net/emporium/C/CAPNET/health.htm* An Internet resource center for information regarding healthcare and humanity. [Exp. #146.]

Catholic Charities Web Pages *http://ccsj.org/* Enhancing the quality of life for all members of the community, especially the poor. [Exp. #146.]

Central News Service *http://users.aol.com/cns1111/2.html* News from the underground, analysis of news to distinguish self-

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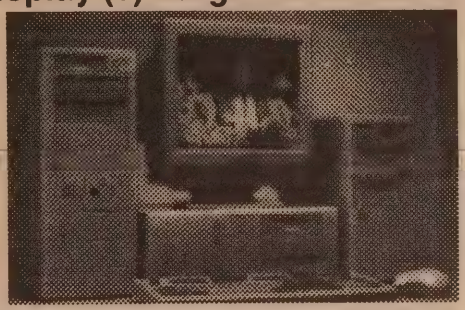

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* Diamond S64 Video w/2MB DRAM
* 17" Wyse/Digiview .28 DPI Monitor
* Teac 6X EIDE CD-ROM Drive
* Sound Blaster Vibra 16S Card
* 1.44MB FDD, Win95 Keyboard, Microsoft Serial Mouse
* Deluxe Medium Tower Case w/250 W PS
* 140 Watt Hi-Fi Speakers, 10 CD Disks
* 14.4K Internal Data/Fax Modem
* 2x EIDE channels, 2x UART 16550, EPP

P5-75Mhz	$2449
P5-90Mhz	$2529
P5-100Mhz	$2599
P5-120Mhz	$2649
P5-133Mhz	$2799

Triton Media Pro LX

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* 16MB EDO SIMM
* Quantum 1.08GB EIDE Mode 4 HDD, 12ms
* Diamond S64 Video w/2MB DRAM
* 17" Wyse/Digiview .28 DPI Monitor
* Sound Blaster 16MCD w/ASP Card
* 1.44MB FDD, Win95 Keyboard, Serial Mouse
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* Medium Tower Case w/230 Watt PS
* 140 Watt Hi-Fi Speakers, 10 CDs
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P5-75Mhz	$2249
P5-90Mhz	$2329
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P5-120Mhz	$2449
P5-133Mhz	$2599

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* Third Party Made Triton or 80486 MB
* 256KB Async Fast Page Cache RAM
* 8MB SIMM, 1.44MB Floppy Drive
* 15" Wyse/Digiview .28 DPI Digital Cntrl Monitor
* WDC 850 MB EIDE Mode-3 HDD, 11ms
* Diamond S64 2001 w/2MB DRAM
* 101 AT Keyboard, Serial Mouse
* Medium Tower Case w/230 watt P/S
* Quad Speed EIDE CD-ROM Drive
* 140 Watt Hi-Fi Speakers, 10 CDs
* Diamond 16 Bit Sound Card
* 2x UART 16550 & 1x EPP/ECP Ports

486DX4100Mhz	$1429
486DX4120Mhz	$1459
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P5-100Mhz	$1699
P5-120Mhz	$1749
P5-133Mhz	$1899

PCI Best Buy

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* 8MB SIMM, 1.44MB Floppy Drive
* 14" Digiview .28 DPI NI Monitor
* WDC 635MB EIDE Mode-3 HDD, 11ms
* SIS 6202 SVGA w/1MB DRAM
* 101 AT Keyboard, Serial Mouse
* Medium Tower Case w/230 Watt P/S
* 2x UART 16550 and 1x EPP/ECP Ports

(Multimedia Kit is Optional)

486DX4100Mhz	$999
486DX4120Mhz	$1029
P5-75Mhz	$1149
P5-90Mhz	$1229
P5-100Mhz	$1299
P5-120Mhz	$1349
P5-133Mhz	$1499

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Online Guide

Web Page Listings *continued...*

interest of institutions from actual current events. Nonprofit community orientation. [Exp. #147.]

Chabot Observatory And Science Center *http://ousd.k12.ca.us/COSC/Chabot.html* Located at 4917 Mountain Blvd. in Oakland near Hwy. 580/13 interchange. [Exp. #146.]

Charlotte's Web—Government Reform Resources *http://www.emf.net/~cr* Links to government and citizen activist groups; ftp-able grassroots essays, articles; National Debt updates. [Exp. #145.]

Child Safety Forum *http://www.xmission.com/~gastown/safe* Provides safety information that may save your child's life or prevent a serious injury. Each month features child safety tips for a different room of the house. [Exp. #146.]

Children's Animated Television *http://www1.usa1.com/~furball/* A progressive nonprofit organization that produces educational videos for children and teens about today's social issues. [Exp. #147.]

Chile Guide *http://sunsite.dcc.uchile.cl/~mvasquez/chile/index.html* Chile Guide is a page where you can find all about Chile. [Exp. #146.]

Church Of Scientology Of Los Angeles *http://www.theta.com/csla/* History of the Los Angeles Church, celebrity comments, photos, What is Scientology?, community, and more. [Exp. #147.]

Cichlid Research Home Page *http://garnet.berkeley.edu:2727/* Information on the fish family *Chichlidae*, for both hobbyists and scientists. [Exp. #146.]

City Of San Carlos *http://www.abag.ca.gov/san_carlos/index.html* "Meet the Candidates" feature provides an easy way to read the statements of the five candidates running for the two vacant City Council positions in the City's General Election to be held November 7, 1995. [Exp. #146.]

Classic/Vintage Thunderbirds *http://www.hooked.net/users/gwotel/index.html* Classic (1955–1957) and Vintage (1958–1966) Ford Thunderbird Web site. [Exp. #147.]

The Computer History Association Of California *http://www.chac.org/chac/* An introduction to the CHAC, includes ftp of all issues in plain text, links to other computer history pages, and more. [Exp. #146.]

Cuba WWW *http://www.unipr.it/~davide/cuba/home.html* Country information, maps, WWW sites, Gopher sites, mail, news, tourism, and more. [Exp. #146.]

CyberKorea *http://165.113.175.2* Intro to CyberKorea, Korean Web directories for news, Internet providers, and other sites. Short Korean lessons (coming soon). [Exp. #146.]

Democratic National Committee *http://www.earthlink.net:80/~cid/ccri/* Find out about the state's Democratic committee based in Los Angeles. This site also lists events and provides links to local Democratic Party organizations around the country. [Exp. #145.]

Democratic Party of the San Fernando Valley *http://val.net/dpsfv/* The Democratic Party of the San Fernando Valley goes electronic. Events, issues, info, and more. [Exp. #146.]

DharmaNet Electronic Files Archive *http://sunsite.unc.edu/dharma.defa.html* Online clearinghouse and library for Buddhist resources, online and off. [Exp. #147.]

Digital Freedom Network *http://www.iia.org/dfn/* Circumventing censorship of published material by posting the works on the Internet. [Exp. #143.]

Earthquake Information From USGS, Menlo Park *http://quake.wr.usgs.gov/* Current quake data, regional studies, info on prediction experiments, projected shaking, and damage maps. [Exp. #147.]

The Economist *http://www.earthlink.net/~the-economist* Read issues of local interest compiled by the Los Angeles bureau of *The Economist* magazine. [Exp. #146.]

First Internet McChurch Tabernacle *http://mcchurch.org/mcdonna* At the hub, the core, the virtual beating heart of the WWW. [Exp. #145.]

Garden Of Remembrance *http://www.islandnet.com/~deathnet/garden.html* A way for a family member or friend to be immortalized in cyberspace with a multimedia obituary. [Exp. #145.]

Global Futures Foundation *http://www.quiknet.com/globalff/globalfu.html* Environmental Web site for businesses, with publications and Future 500 CEO resource efficiency roundtable. [Exp. #145.]

Global Ideas Bank *http://newciv.org/worldtrans/BOV/BOVTOP.HTML* International suggestion box for ideas or projects for improving the quality of life. Annual award. [Exp. #145.]

Golden Retrievers In Cyberspace *http://www.rahul.net/hredlus/golden.html* Information on Golden Retrievers: how to find breeders, rescue groups, GRCA, and more. [Exp. #144.]

Henry Ford Museum Online *http://hfm.umd.umich.edu* Provides users with historical content and programs. Highlights include "The Automobile in American Life," "Made in America," and Presidential limo exhibits. [Exp. #146.]

Institute For Global Communications Progressive Directory *http://www.igc.apc.org* [Exp. #145.]

Institute Of Heartmath *http://www.webcom.com/~hrtmath/IHM/AboutHM.htm* / Research-based training for developing enhanced intuitive intelligence to successfully manage mental and emotional choices. [Exp. #144.]

Ischemia Research And Education Foundation *http://grimm.ucsf.edu/* The IREF and McSPI Web site describes the cutting-edge heart research done by this worldwide network of prestigious study centers. [Exp. #146.]

Islamic Server of MSA-USC *http://www.usc.edu/dept/MSA/* Contains information on Islam, including several large reference works. [Exp. #146.]

Jerry Garcia Tribute Site *http://www.rockweb.com/rwi/jerry-tribute* Sign condolence card project, video, sound, pix, chat. Collaboration between RockWeb, David Grisman, Stanley Mouse, and Steve Brown. [Exp. #146.]

Libertarian Party Of America *http://www.lp.org/lp/* America's Third Party. [Exp. #145.]

Los Angeles County Museum of Art *http://www.lacma.org* Largest museum west of the Mississippi is online. Come and see the art. [Exp. #146.]

Mansoor Amarna Collection *http://www.amarna. com/* A collection of Egyptian Amarna era art, pieces of which may be found in the Louvre, the Vatican, and other museums. [Exp. #146.]

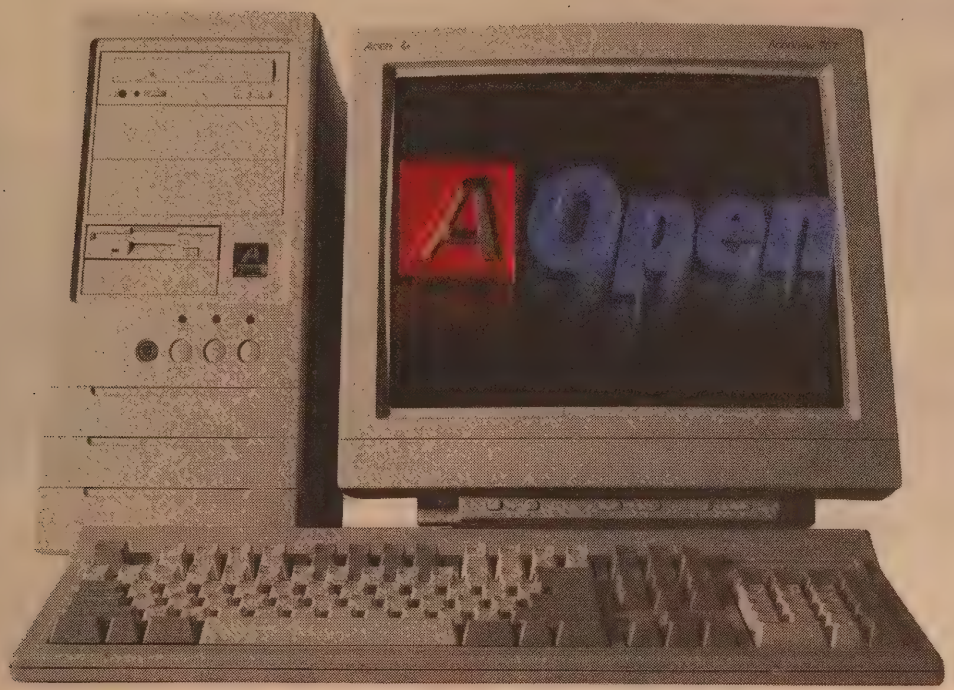
MetaSelf *http://www.metaself.org/model* Understanding the whole self through a model based on common spatial metaphors. High school lesson plans. [Exp. #146.]

NAAFA Online *http://world.std.com/~naafa* National Association to Advance Fat-Acceptance. Promoting wellness and combatting prejudice against fat people. [Exp. #146.]

NASA Office of Space Science *http://www.hq.nasa.gov/office/oss* The NASA Headquarters Office of Space Sciences provides information and links to Space Science sites. [Exp. #146.]

New Civilization Network *http://newciv.org/world-*

WE TOOK A GREAT IDEA AND BUILT ON IT!



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- 15" ACERVIEW SVGA .28 Monitor
- Acer 4X EIDE CD ROM Drive
- Sound Blaster 16 Sound Card & Amplified Speakers
- MS CD Bundle (Encarta/Money/Works/Scenes)
- **14,400 Fax Modem w/ Voice Mail**
- Microsoft Mouse & Acer 101 Keyboard
- 7 Bay Mid Tower Case & TEAC 3.5" FDD
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- 15" ACERVIEW SVGA .28 Monitor
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- MS CD Bundle (Encarta/Money/Works/Scenes)
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- CD Software Bundle
- Microsoft Windows®95 or DOS 6.2 & WFW 3.11
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- 3.5" High Density Floppy Drive
- **1.2GB Enhanced** IDE Hard Drive
- PCI **Enhanced** HD **Controller**
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Web Page Listings *continued...*

trans/newcivnet.html "To make the world a better place." Free space for many nonprofits. [Exp. #145.]

The Noble Internet Directories *http://www.experts.com/* Details about a UCSF Opthalmology Dept. research project testing a new diffractive optic to treat many new vision imperfections. [Exp. #146.]

The Objectivism Resource Guide *http://www.hypermall.com/oms/org/* Learn more about Ayn Rand—author of *The Fountainhead* and *Atlas Shrugged.* [Exp. #146.]

Oceania, The Atlantis Project *http://oceania.org* Want to talk about forming a new country? Come visit us. [Exp. #145.]

Old Town Pasadena *http://www.earthlink.net/~jescala/oldtown.htm* A comprehensive guide to the night life of Old Town Pasadena, with reviews of bars, pool hall, and clubs. [Exp. #146.]

OrchidMania *http://www.orchids.org* Orchid maniacs raise money for grassroots AIDS programs worldwide with the "World's Largest Orchid Garage Sale." Plenty of orchid growing information. [Exp. #146.]

OSU Government Information Sharing Project *http://govinfo.kerr.orst.edu/* Funded by the U.S. Dept. of Education, this site provides access to detailed population and agricultural statistics for Northwest states. [Exp. #146.]

ParentsPlace.Com *http://www.parentsplace.com/* The parenting resource center on the Web: reading rooms, chat, shopping mall with parenting and child-care products. [Exp. #146.]

People Who Care *http://www.people-who-care/people* HIV programs, community organizations, job training, homeless care, counseling, cultural activities at St. Paulus. [Exp. #146.]

PETA *http://envirolink.org/arrs/peta/index.html* PETA, People for the Ethical Treatment of Animals, online includes factsheets, updates, membership info, a list of cruelty-free companies, and other resources. [Exp. #146.]

PGPfone Home Page *http://web.mit.edu/network/pgpfone/* A software package that turns your desktop or computer notebook into a secure phone. The Beta Test is available for the Macintosh with Windows 95 version in the works. [Exp. #146.]

Phil Gramm For President Campaign *http://www.gramm96.org* Speeches and articles from the campaign trail intermixed with graphics, audio and video clips, and more. [Exp. #143.]

Portola Views *http://www.primenet.com/~martonj* Portola Hills Community Bulletin Board, providing event, activities, and neighborhood interface with a virtual Town Hall. [Exp. #146.]

Qui Tam Information Center *http://www.quitam.com* A place for whistleblowers and attorneys to gain information in pursuing qui tam actions. [Exp. #145.]

Rainbow Flag Health Services *http://www/leland.stanford.edu/~blandon/rainbow.html* A new Known Donor Sperm Bank serving the Gay and Lesbian community of the San Francisco Bay Area. [Exp. #146.]

Rebecca Pack & Associates *http://www.value.net/execsol/~execsol.html* Pictures and information of missing children. Offers hot spot advice for small and large businesses. [Exp. #147.]

Remembering Nagasaki *http://www.exploratoruim.edu/nagasaki* A WWW page and Internet Exhibit at the Exploratorium as part of the world's observance of the 50th anniversary of the bombings of Hiroshima and Nagasaki. [Exp. #145.]

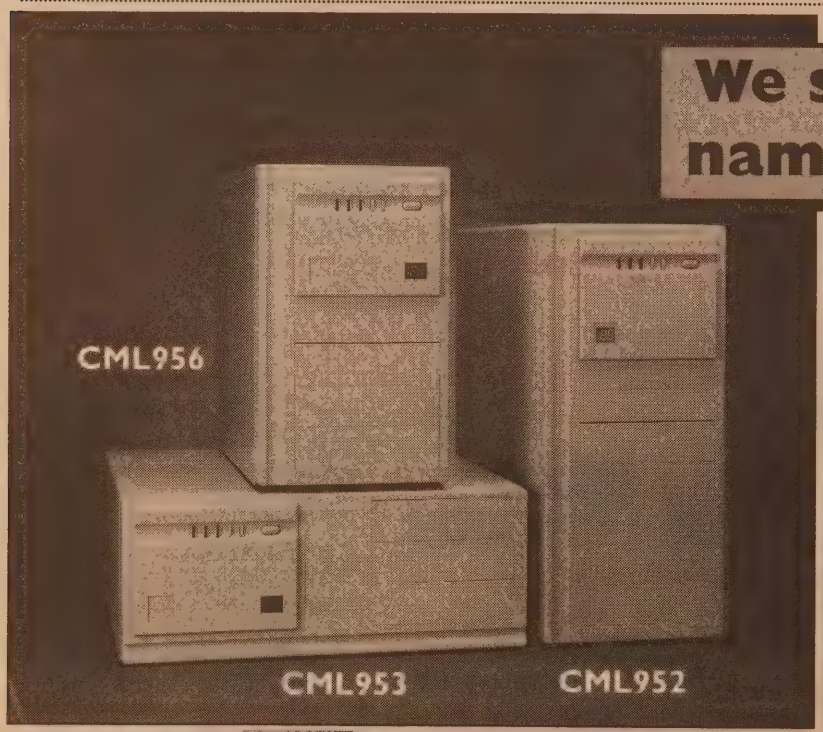
Republican National Committee *http://www.rnc.org/* Depicting a block from a typical American town, there are thousands of things for a visitor to do on the RNC home page. [Exp. #147.]

Saigon Net Home Page *http://www.saigonet.com/* N. California Vietnamese Community activities, two news magazines, business directory, pagodas, and information on Vietnam. [Exp. #146.]

Salvador Dali Museum *http://www.highway.com/dali/* Features lots of cool Dali images, including flies and melting clocks, and explains how the museum got to be located in St. Petersburg. [Exp. #146.]

Santa Barbara International Introduction Center *http://www.rain.org/~sbintl/* A Web site serving a group of Eastern European women, primarily from Minsk, Belarus, but also from Tashkent and Uzbek-

continued on page 226



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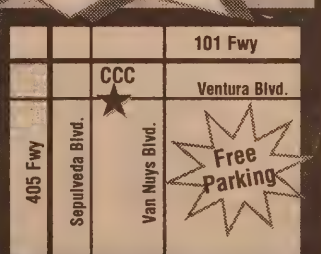

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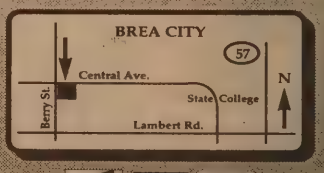

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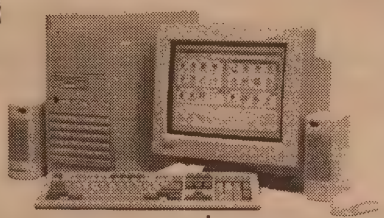

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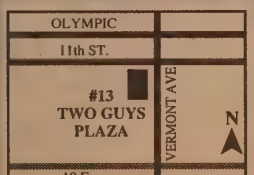

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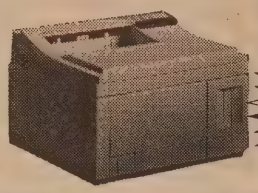

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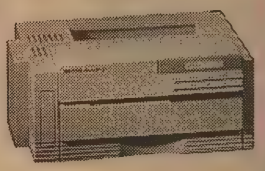

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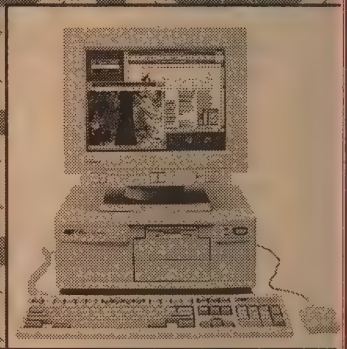

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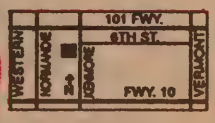

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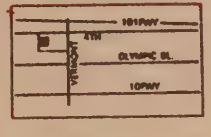

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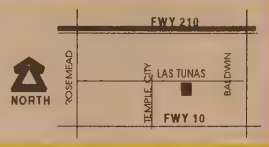

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- △ **8MB** 72pins RAM exp. to 128MB
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- △ NEC 1.4MB Drive
- △ **Western Digital 1.2GB** IDE Hard Drive
- △ **Diamond Stealth 64** ***PCI w/ 2MB Video DRAM***
- △ On-Board PCI Bus Master IDE & Multi I/O (UARTs)
- △ **15" Non-Interlaced SVGA Color Monitor .28**
- △ Mid Tower Case w/ UL: 230W Power Supply
- △ 101 Enhanced Keyboard

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- △ NEC 1.4MB Drive
- △ **Western Digital 1.2GB** IDE Hard Drive
- △ **Diamond Stealth 64** ***PCI w/ 2MB Video DRAM***
- △ On-Board PCI Bus Master IDE & Multi I/O (UARTs)
- △ **17" Non-Interlaced SVGA Color Monitor .28**
- △ Mid Tower Case w/ UL 230W Power Supply
- △ 101 Enhanced Keyboard

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- △ 256K Ultrafast write back cache
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- △ Conner 1.0GB SCSI-2 Hard Drive
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- △ Built-in Adaptec 2940 PCI Fast SCSI Controller
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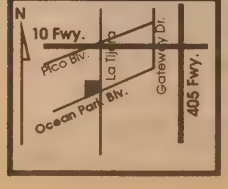

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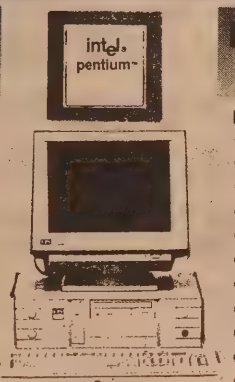

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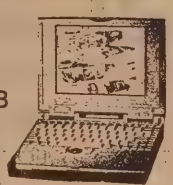

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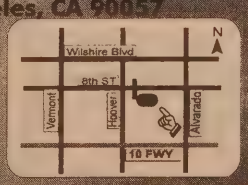

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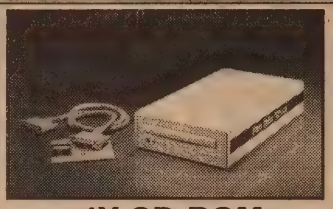

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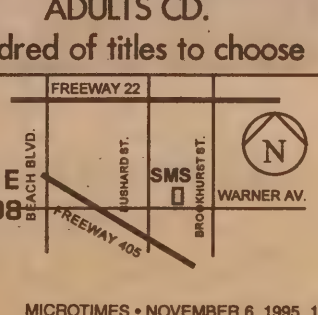

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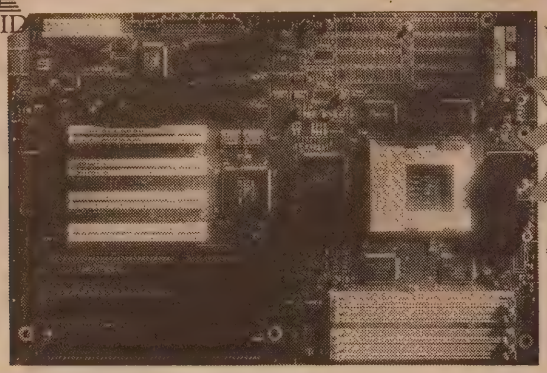

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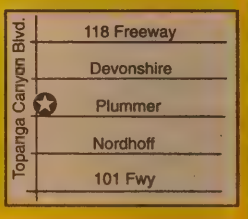

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Intellectual Property In A Digital World

Who Owns It? Who Controls It? Who Pays For It?

Earlier this year I had occasion to attend a Software Forum meeting where the featured speaker was Esther Dyson and the subject was intellectual property. Dyson held, as she has written in Release 1.0 and elsewhere, that in a world where it is not possible to physically control the reproduction and dissemination of one's creations, the time had come to define new methods of dealing with intellectual property issues. To the great consternation of her usually devoted audience, she went so far as to suggest that rather than sell software, programmers might want to give the software away and use it to promote ancillary business—citing, for example, Cygnus, one of the Bay Area's more successful recent startups, which makes its money by selling support services for the free GNU software, in wide usage almost everywhere there's UNIX.

On the other side of the spectrum there's the Software Publishers Association in Washington DC, which has been remarkably successful in attaching increasingly draconian federal criminal penalties to increasingly casual software copying. In its kinder, gentler aspect, it also extensively promotes the theme of "Don't Copy That Floppy" in schools, businesses, and anywhere else the issue is likely to come up.

While the software business is certainly embroiled in controversy about the impact of technology on its business model, the debate over intellectual property in a digital age rages on many fronts. The rush to net-based publishing has left publishers, editors, writers, photographers and other content providers scratching their heads over compensation schemes; as people try to figure out just what digital rights are really worth, the New York Times made headlines with a stunning (for writers) preemptive strike, declaring that henceforth all freelance work done for the paper would be considered work for hire—i.e. the writer forfeited all rights to it, in all present and future media. If nothing else, this move created a remarkable opportunity for other publishers to look good.

IP is a vast subject. We can't possible provide a comprehensive overview, but we hope the articles that follow provoke your thinking on the subject.

For software developers, Laura Majerus offers an explanation of patent law as it applies to software, and what sort of protection patent law offers to developers. We've also reprinted (with permission) Guy Lamolinara's article "Copyright in the Digital Age" from the Library of Congress Information Bulletin, describing the Library's CORDS (Copyright Office Electronic Registration, Recordation, and Deposit System) to allow fast checking of a particular works' copyright status and ownership.

Chris Bucholtz takes a look at a current Internet cause celebre that pits the Church of Scientology against dissident Internet-using former Scientologists. What might seem initially like an internal squabble within a religious sect is in fact profoundly significant for the future of intellectual property law as it operates globally on the net.

Roger Karraker explores a business model that may emerge from all this: eliminating the middlemen in publishing, and allowing writers to reach their audiences (and get paid) directly, using the net.

Finally, we sent John Downen off to talk to various industry folks with inside perspectives on IP issues, and we hope you'll find their views, various as they are, illuminating.

—Mary Eisenhart

By Guy Lamolinara

Copyright © In The Digital Age:

CORDS Project To Make Registration, Verification Easier

The following article originally appeared in the June 12, 1995, issue of the Library of Congress Information Bulletin. *As it is relevant to this issue's topic of intellectual property, and since it shows what the Library of Congress and the Copyright Office are doing to keep up with technology, we've decided to reprint it here. You can access the Library of Congress at* http://www.loc.gov *or gopher to* marvel.loc.gov, *port 70. —eds.*

A classic case of technology advancing faster than the controls for its use exists in the copyright arena.

Digitization and the Internet make it possible to transmit materials anytime, anywhere. Both hard and electronic copies can be made at the press of a button.

But intellectual property rights of creators can be compromised by the technology that makes near-instantaneous transmission of data possible. Those using this information may not even know they are violating intellectual property rights.

One of the features of a Library of Congress and Copyright Office project, called CORDS (Copyright Office Electronic Registration, Recordation, and Deposit System), will be to allow users to check electronically the copyright registration and ownership status of a particular work. Registration of works in digital form will also be achieved.

"We need effective new ways to manage copyrighted materials in the new digital environment," said Mary Levering, associate register for National Copyright Programs. "Rights holders need to move from the old, costly, and time-consuming rights-clearance systems to ones in which ownership and licensing information is readily available."

CORDS is designed to help meet those needs in its three component systems:

• The Electronic Registration and Recordation System of CORDS will enable copyright applicants to prepare their copyright applications and deposit materials in machine-readable formats; to digitally sign their submissions using public key/private key encryption technology; and to send applications, deposits, and documents to the Copyright Office over the Internet, using Privacy Enhanced Mail, or PEM.

The system will enable the Copyright Office to receive digital submissions through the Internet, verify that each one is authentic and complete, debit fees from the applicant's Copyright Office deposit account, and send an electronic acknowledgment to the applicant.

The Copyright Office digital repository will hold these digital copyright deposit materials in a secure manner.

• Existing Copyright Office systems for cataloging and processing will be compatible with the new components.

• The Handle Management System will assign a unique "handle" as an identifier to each digital object registered. The handle is used to find the location of the digital object as well as its rights-management information.

"We need to design and develop the system that will store and retrieve copyrighted works in digital form from secure repositories to facilitate electronic dissemination in accordance with terms and conditions established by copyright owners—and we need to do this quickly," said Mrs. Levering, when discussing why the Copyright Office must develop such a system.

"Our objective is an easily accessible centralized system that will serve the public as well as authors and other copyright owners," she added.

Currently, much of the registration work of the Copyright Office begins with the receipt of a paper application sent by mail.

The CORDS test-bed phase is due to begin in the summer of 1995. Test-bed results will then http:be analyzed and changes made; follow-up test pilots will be developed. In 1996 efforts will begin to test digital registration and deposit of published textual materials, and participants will be chosen to cooperate in further testing on a format-by-format basis.

In 1997 plans call for inclusion of graphic materials such as illustrations and photographs, as well as sound recordings and music. Motion pictures and audiovisual works will be addressed in 1998.

According to Marybeth Peters, register of copyrights, "As we receive more and more applications, deposits, and documents electronically, we will see savings in the processing of such materials, and eventually in certain areas we will be able to reduce the number of employees required to do the job."

Currently an average of six staff members is needed in the various stages of the manual registration system to process approximately ten thousand claims per year. Under CORDS, this could be reduced ultimately to one or two persons per ten thousand claims.

Because CORDS is a digital system, it will reduce the processing and storage of digital works from the current seventeen physical steps to six purely online processes, requiring no physical resources or storage areas other than workstations and file servers.

Thus, for all works registered solely through CORDS, there will later be a tremendous savings both in personnel and space. There will also be no need to store and transport physical material.

"Most important," said Mrs. Levering, "service to Congress and the nation will be improved," as copies of works in digital form and rights-management information needed for required licensing and permissions can be made much more quickly available.■

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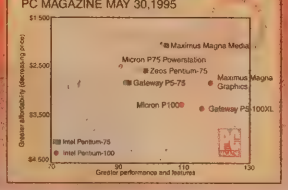

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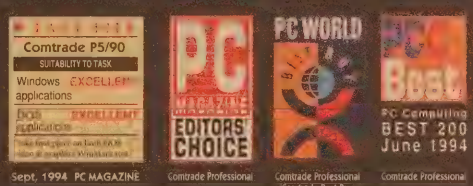

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By Laura A. Majerus

Is Software Patentable?

New Guidelines From The Patent Office

Imagine that you own a small software company. You've just written a new piece of software that may finally put your company on the map. Fame and fortune loom. But you are worried. You put a lot of time and money into developing this product. What if some other company copies your software? What if someone else comes up with your idea? What if one of your employees takes the code and jumps ship. You've heard that software isn't patentable. You've heard that it is. What kind of intellectual property protection is available for software?

Intellectual property protection is available for software in three basic flavors: patents, copyrights, and trade secrets. This article only discusses the first flavor, although the last two certainly are available options. While you can (and should) obtain both patent protection and copyright protection for software, patent protection and trade secret protection are generally not compatible.

The Basics Of Patent Law

Certain aspects of patent law apply to all types of inventions, including software. A patent gives its owner the right to exclude others from making, using, or selling the patented invention for a set period of time. This period of time used to be seventeen years. This year, the law was changed so that issued patents have a lifespan of twenty years from the date that the patent application is filed.

The tests for whether an invention is patentable are the same, no matter what the nature of the invention. For something to be patentable, it must be "useful," "novel," and "nonobvious." In addition, an invention must fall into at least one of several "statutory classes." These classes are: a process, a machine, an article of manufacture, or a composition of matter.

Over the years, people have tried to patent various things that do not fall into these statutory classes. For example, objects found in nature, such as a rock or a naturally occurring plant, cannot be patented. Similarly, abstract ideas and laws of nature cannot be patented. For example, the equation $E=mc^2$ is merely an equation and does not fall into any of the statutory classes. This does not mean that someone couldn't patent a process, machine, article of manufacture, or composition of matter that somehow uses or relies on the equation $E=mc^2$. The equation itself, however, cannot be patented.

YOU'VE HEARD THAT SOFTWARE ISN'T PATENTABLE.

YOU'VE HEARD THAT IT IS.

WHAT KIND OF INTELLECTUAL PROPERTY PROTECTION IS AVAILABLE FOR SOFTWARE?

In recent years, the Patent Office has been trying to determine exactly how to deal with software. The Office hired computer scientists as patent examiners and started improving its database of software prior art. Courts have found that mathematical algorithms cannot be patented. Until recently, Patent Office employees (aka "examiners") used a rather convoluted test, called the Freeman-Walter-Abele test (named after three court cases), to determine whether an invention was a mathematical algorithm and, therefore, not patentable. The test for whether a particular computer program constituted patentable subject matter, however, remained difficult to apply and to understand.

The Patent Office To The Rescue

This summer, the Patent Office published proposed guidelines for its examiners to help them examine computer-implemented patent applications. The text of the guidelines can be found at *http://www.uspto.gov* . These guidelines were developed after months of internal discussion and public hearings (one of which was held in the Bay Area). When this article was written, the guidelines were not final yet. The period of comment closed on September 22. Eventually, a summary of the public comments, along with a summary of the court cases upon which the guidelines

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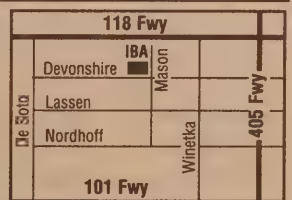

are based will be available from the Patent Office's Web site.

What do the guidelines say? First, they list three types of computer-related inventions that the Patent Office has decided qualify as statutory subject matter. To quote the guidelines:

i) A computer or other programmable apparatus whose actions are directed by a computer program or other forms of software is a statutory machine.

ii) A computer-readable memory that can be used to direct a computer to function in a particular manner when used by the computer is a statutory article of manufacture.

iii) A series of specific operational steps to be performed on or with the aid of a computer is a statutory process.

Although it has been possible to patent certain types of software for years, the new guidelines from the Patent Office should make the application process easier. Before, each software-related invention was scrutinized under the Patent Office's Freeman-Walter-Abele test. Now, it is clear that the "statutory machine" invention category can include a computer program being executed by a computer. Similarly, it is clear that the "process" invention category can include a process executed by a computer program.

A patented invention is defined in a portion of the patent document called the "claims." It should be possible to claim most software inventions so that they fall within one or more of these statutory classes. The guidelines relating to "articles of manufacture" are interesting and have some far-reaching repercussions for software manufacturers, as discussed below.

In addition to spelling out what is statutory subject matter, the guidelines specify some types of computer-related inventions that are not statutory subject matter. Things that are not statutory subject matter (and therefore cannot be patented) include:

i) a compilation or arrangement of data, independent of any physical element;

ii) a known machine-readable storage medium that is encoded with data representing creative or artistic expression, such as a work of music, art, or literature;

iii) a "data structure" independent of any physical element, i.e., not as implemented on a physical component such as a computer-readable memory to render that component capable of causing a computer to operate in a particular manner; and

iv) a process that does nothing more than implement abstract ideas or concepts, such as a proces consisting solely of the steps a person would follow in solving a mathematical problem.

The guidelines state that inventions claimed in these forms are indistinguishable from abstract ideas, laws of nature, and natural phenomena. For example, part (i) indicates that a person cannot patent the contents of a database. On the other hand, a computer program that uses a database to perform some process probably would be statutory subject matter and could be patented, assuming that is was novel, useful, and nonobvious. Similarly, under part (ii) a person cannot patent a CD-ROM of songs that he composed. This is different, however, from patenting a physical process or apparatus that stores data onto a CD-ROM. Part (ii) does not preclude, for example, getting a patent for a novel, useful, and nonobvious invention relating to CD storage technology.

Part (iii) is somewhat more ambiguous. In its purest form, a data structure is just a concept—boxes and arrows drawn on a piece of paper, an idea floating around in space. While part (iii) suggests that you can't patent the concept of a data structure, court cases say that it is sometimes possible to patent a data structure stored in a physical element, such as the memory of a computer. Subsequent developments in the Patent Office may clarify this point.

Under part (iv), a process that only implements abstract ideas or concepts is not patentable. The guidelines give the example that a process for solving a mathematical problem (presumably a process performed by a human being) is not patentable. Part (i) of the "things that are patentable" list, however, seems to indicate that a "series of specific operational steps to be performed on or with the aid of a computer" is patentable. It seems that the Patent Office considers, for example, a computer program that does nothing but solve a mathematical equation to be patentable subject matter. Possibly, the discussion of case law that the Patent Office has promised will further clarify this point.

Software As An Article Of Manufacture

Part (ii) of the "things that are patentable" list states that software stored on a computer-readable memory, such as a CD-ROM or floppy disk, can be patented as an article of manufacture. This position represents a flip-flop by the Patent Office, which has previously refused to grant patents for "software in a memory." The rationale behind the Patent Office's refusal to grant such patents is as follows: Software that is just sitting there in a memory or on a CD-ROM and that is not being executed by a computer is nothing but ones and zeroes. It's not a process (it's not doing anything); it's not a machine (ditto); and it's not a composition of matter (it's just bits). While the memory itself may be an article of manufacture, it probably isn't novel and nonobvious until you consider the bits stored on it. Patenting the bits stored in a memory, however, according to the Patent Office's former logic, would be too much like patenting "words in a book" or "music on a CD-ROM," which are not allowed, since these don't fit into any statutory class.

Why would a person want to patent software as an article of manufacture, rather than as a machine or as a process? The quick answer is that it extends your patent rights to people who don't actually execute your patented software. Imagine that you are a software manufacturer. You make software, which is distributed to your customers on CD-ROM. You went to a lot of time and effort to develop and market this software. If Company B is selling software that is just like your software, you want to be able to stop Company B from making and selling your patented invention. If your patent only covers a process and a machine, however, you have a problem. All that Company B does is sell CD-ROMs containing software. They don't run the software. Therefore, Company B does not perform the patented process or implement the patented machine and Company B does not infringe your patent. (It's true that Company B may be contributing to the infringement by others or inducing others to infringe, but for reasons we won't go into here, this is harder to prove.)

Of course, there are people who are infringing your patent—the customers who buy the software. Whenever Company B's customers receive their CD-ROM, they install and run the software, thus creating the patented machine or practicing the patented process. I don't think I am telling you anything new if I tell you that it's not a good idea to sue customers, even other people's customers. They are either the people

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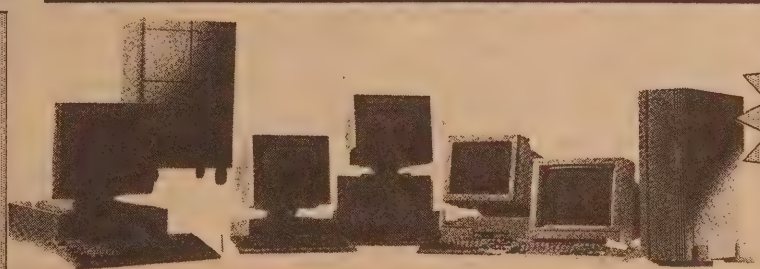

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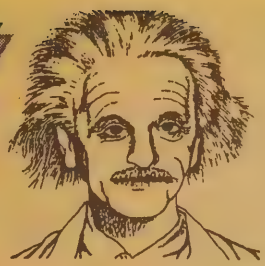

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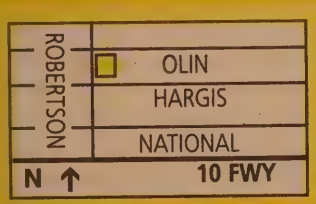

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who actually buy your product or who might potentially buy your product and they are not people you want to have mad at you.

So, what do you do? If your patent includes claims for an article of manufacture—"software in a memory"—Company B is directly infringing these claims when it makes a CD ROM with software on it. It doesn't have to execute the software in order to infringe your claims. All it has to do is put the infringing software on the CD-ROM. This is good. You can protect your economic interest in all that R&D money without having to antagonize your customers or potential customers. It's easy to see why software manufacturers want to get patents that claim their invention in as many different ways as possible, including article of manufacture claims.

What Does It All Mean

Software has been patentable for a number of years. Specific rules about how to claim software and some specifics about which sub-types of software can be patented have changed frequently, however. At times, the Patent Office and the courts have disagreed about what types of software inventions constitute statutory subject matter.

The new guidelines specify what software inventions are patentable. They also specify what types of software inventions can be considered a machine, a process, and an article of manufacture. The guidelines should simplify the rules that are followed by examiners in determining patentability.

Keep in mind that this article deals with US law only. Patents issued in the United States generally are only effective against infringers in the United States. Each country has its own patent laws affecting how patents are granted and enforced, although certain regions such as Europe have unified their patent laws somewhat. While foreign patent protection is outside the scope of this article, the US is not the only country that is grappling with software patents. Hopefully, the new guidelines will simplify life for software developers, at least in the US. ■

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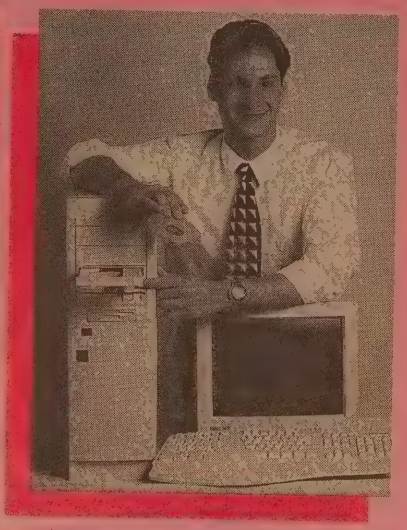

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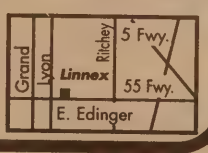

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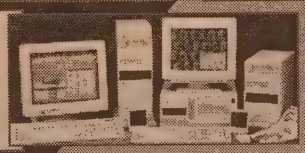

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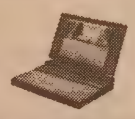

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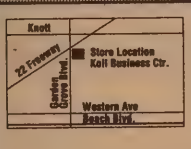

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By Roger Karraker

Direct Publishing On The Net

Can Technology Eliminate The Middlemen Between Artists And Audiences?

It's an artist's-writer's-musician's ultimate fantasy: a world where creators and audience are intimately linked in an act of creation, one that requires no nightclub, no concert arena, no publishers, no promoters, no record labels—in short, none of the interlopers who get in the way of artistic creation.

I believe cheap electronic distribution of "intellectual property" gives us a historic opportunity to completely rewrite how we interact and compensate artists. I believe the breathtaking advances in easy delivery of information—primarily because of the World Wide Web and plunging costs for bandwidth—make possible a whole new paradigm: directly subscribing to content creators.

Today's Distribution Model

Let's say I spend $1000 per year on books, magazines, online, etc. (that's probably low in my case). Let's say I think the sun rises and sets on Howard Rheingold, the author of *Virtual Reality* and *The Virtual Community*. Howard is prolific (his column "Tomorrow" appears each week in the *San Francisco Examiner*) and provocative. He's always interesting. But let's take a look at the tortured path I have been forced, until recently, to tread in order to get Howard's thoughts and to pay him.

I have to search out an Examiner and spend 50¢ to get fifty to sixty pages that are of little use to me. The Examiner, in one sense, is frightfully inefficient. It really costs about $2 to write, edit, print, and distribute a copy of that newspaper. I pay a small fraction; advertisers pay the lion's share to gain access to my eyeballs. It's cynical but accurate to say that advertising-supported media are in the business "of selling readers to advertisers."

Unfortunately for those advertisers lusting after my eyeballs, they just made a poor purchase. My copy of the *Examiner* will contain 150 articles and perhaps 175 advertisements. I live 70 miles from San Francisco, and most of the stories and ads are totally irrelevant to me. The advertisers wasted their money, the *Examiner* wasted more than a few trees, and Howard's share of my 50¢ is negligible.

I just wanted Howard's wisdom, but I had to engage in a complicated dance that involved the one thousand employees of the San Francisco Newspaper Agency. (On a typical newspaper, it takes four or five other employees—printers, ad sales reps, drivers, office clerks, etc.—to bring one writer/editor/photographer's work to you.) That's because newspapers, books, and magazines are only "modern" on the surface. Underneath they are real nineteenth century creations, quintessenti artifacts of the assembly-line production of th Industrial Age.

That Was Then, This Is Now

But now there's the net. And what is bad for th *San Francisco Examiner* and its role as an inte mediary may turn out to be a godsend fo Howard Rheingold and me. And maybe for you if you create ideas, words, music, images, o any other kind of "intellectual property," or you would like to see more of your money go t creators and less to distributors.

What's going on here is that the sudden digi tization of all media and the plummeting cos of bandwidth mean it is now trivially inexpensive to distribute content. "Media" no longe consists of "ink smeared on crushed trees" o film or plastic tape. It consists of electronic zeroes and ones that can be sent around the world for a few pennies or less and can be endlessly recycled.

Rob Tow, one of Interval Research's top thinkers, has observed that when the cost of a desired item falls tenfold or more, the resultant change can transform a society. For example, cars existed for thirty years before Henry Ford

Newspapers, books, and magazines are only "modern" on the surface. Underneath they are really nineteenth century creations, quintessential artifacts of the assembly-line production of the Industrial Age.

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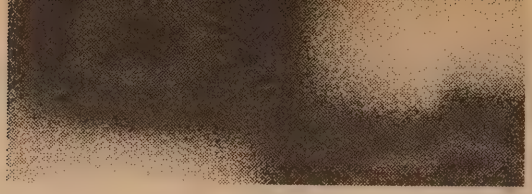

got his assembly line down, and the cost of cars fell tenfold. A few years later, the industrial world's landscape was forever transformed by the automobile. So too with telephones, television, and now personal computers—when they were expensive, they were interesting but hardly transformative. When they became cheap enough to be ubiquitous, they irrevocably changed the world.

Hardware is one thing. Transportation is another. What we're seeing now is that the cost of transmitting information has suddenly gone from expensive—I remember when getting a long-distance phone call meant someone was ill or dead—to trivially cheap. In fact, according to economist Robert Cohen, plunging costs for bandwidth could fuel an enormous economic revitalization: "I like the research that Larry Roberts has done. It shows that since 1989 the cost of transmitting data looks very much like the cost of computers in the period 1965–70. Since 1989, we've seen the cost of transmitting a bit of data has dropped tenfold every three years from 3¢ to .3¢ to .003¢ by the end of this decade. The cost of transmitting data will fall a thousandfold this decade."

This means it is now cheaper and easier for me to get my information electronically, via my computer. For the past year I've not had to pay for the *San Francisco Examiner* in order to read Howard Rheingold. Howard's been publishing his columns on his World Wide Web page (*http://www.well.com/community/hlr*) and on HotWired's Web site. The falling cost of bandwidth has made it possible for Howard and me to engage in "disintermediation." I won't pretend that I understand it exactly, but essentially it's like buying "factory direct," cutting out the middleman. You see it in retailing now, with "factory stores" and warehouse stores. In the latter, several layers of distribution are collapsed. The result is lower prices for consumers and more revenue kept in the hands of the manufacturers.

Extending this notion to information products, cutting out the middlemen becomes really doable, I think, because the cost of distributing stuff electronically is trivial. Howard's print publisher gets big bucks, some of them deservedly, for the risk of printing and distributing X copies. The publisher has to hire printers, print and bind books, ship them all over creation, then end up with perhaps 50% of them left over, because bookselling is among the least predictable of businesses.

IP In An Age Of Infinite Reproducibility: It's The Relationship

In contrast, by distributing his intellectual product himself and doing it electronically, Howard could cut the cost of publishing to essentially nothing. And that is just what Howard is doing with his Web site. He's not only making available his "Tomorrow" columns, he's giving away, as an experiment, his most recent books. Intentionally or not, Howard is following a prescription laid down by info industry guru Esther Dyson, who last year suggested in her newsletter *Release 1.0* that the ease of reproducing digital works—really, their inability to prevent others from copying their creative products—will lead creators to essentially give away their work in order to create "relationships" with their audience. The real money, Dyson says, will come from customized products and personal services between creators and customers, not in the trivial copying of a static work.

"Not only is it easy for individuals to make duplicates of many works or to reuse their content in new works, but the physical manifestation of content is almost irrelevant," Dyson says. "Controlling copies (once created by the author or by a third party) becomes a complex challenge. You can either control something very tightly, limiting distribution to a small, trusted group, or you can rest assured that eventually your product will find its way to a large nonpaying audience—if anyone cares to have it in the first place.

"Only by attracting broad attention can an artist or creator hope to attract high payment for copies. Thus, on the net, the creators give first performances or books (or whatever) away widely in hopes of recouping with subsequent works.... The trick is to control not the copies of your work but instead a relationship with the customers—subscriptions or membership. And that's often what the customers want, because they see it as an assurance of a continuing supply of reliable, timely content."

I like the idea of subscribing to creators. Why not pay Howard $X directly—in effect a subscription to Howard Rheingold—and he emails me everything he writes everywhere for the year? Let's say that figure is $35 per year, about what a magazine subscription would cost, a magazine that I might spend two or three hours per month reading. Let's further say that for my bucks Howard deigns to answer my email when I have an occasional question.

For the $1000 a year I spend on print media, I could have thirty such writers working for me directly. And Howard? Let's say he gets three thousand others worldwide who like him as much as I do. That's $105,000 a year, which translates as a living in my book, and he doesn't have to split it with anyone. He doesn't have to sell fifty thousand copies of a $25 book of which he gets to keep maybe $2.50. He can make about the same money with a client base about one order of magnitude smaller. And he knows who his customers are. If he can get fifty thousand readers to subscribe (and I'd bet more than that purchased Howard's last book) he can cut the price to $25 and walk off with $1.25 million and not have to deal with a publisher.

"The trick is to control not the copies of your work but instead a relationship with the customers—subscriptions or membership," says Esther Dyson.

Nice Theory. Does It Work?

Is there any evidence such a scheme might work?

Yes, in fact, there is, although it requires that you follow along with some interesting math. In 1991, the *Dallas Times Herald* was purchased and closed by its competitor, the *Dallas Morning News*. The *Times Herald's* popular sports columnist, Skip Bayless, was suddenly out of work, with no employer. A dozen newspapers in other cities wanted him, but he would have to relocate.

continued on page 214

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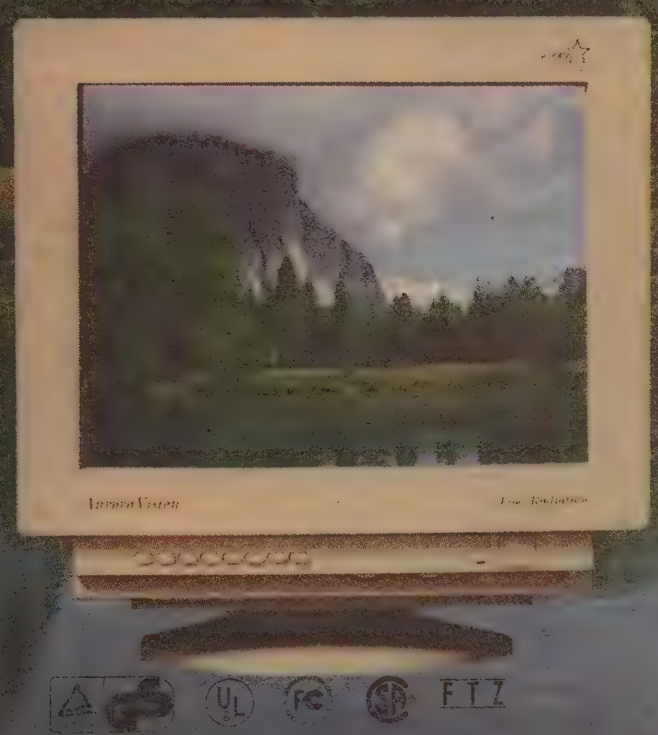

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Pentium-100	$2999
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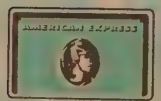

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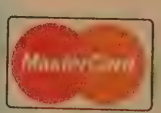

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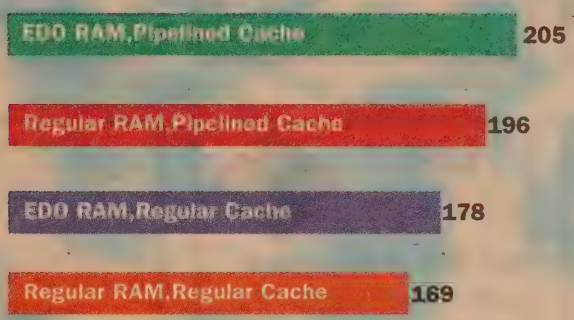

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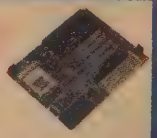

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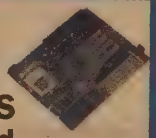

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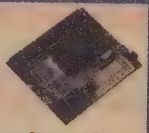

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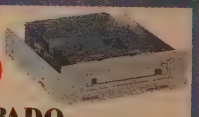

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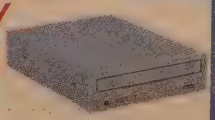

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*3502 IDE / 3501 SCSI-2
*600KB / Sec Transfer

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6X CD-ROM

*Sub 200ms Access Time
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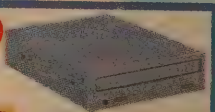

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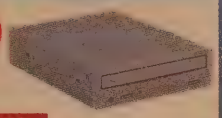

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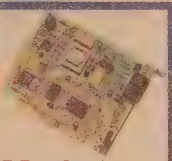

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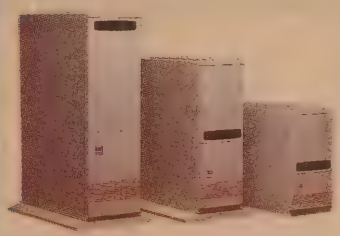

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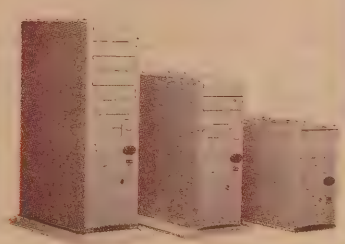

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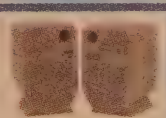

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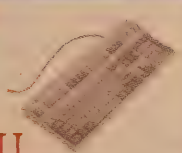

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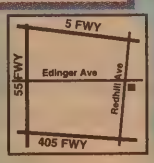

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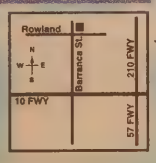

Keeping Tabs On The Ephemeral

The Varieties Of Intellectual Property Experience

Recently we spoke to several people involved in various aspects of the computer industry and asked them what they felt were the central issues in intellectual property, currently a hot topic with the growth of the Internet and other online services and the digital nature of an increasing number of products and commerce. The opinions expressed ranged from a belief in the need to control unauthorized copying to "give it away and make money other ways" to it is more important to have customers than patents, with other issues raised as well. We hope this serves to illuminate at least some of the debate taking place.

—John Downen

Kaye Caldwell
Software Industry Coalition
kaye@ix.netcom.com

Some of the central issues at this point include:

Protection of intellectual property on the NII/GII: Strong encryption is necessary to provide protection for intellectual property as it traverses the Internet, however the government's policy is to disallow the export of strong encryption, to hinder its use internationally, and to threaten its use even domestically.

There is one area which I think has vast potential for hindering the development of electronic commerce for intellectual property products. That area is state tax laws. Electronically delivered products are not geography-aware; there is no knowledge of the state of delivery. Yet many states believe they can now, or will soon be able to, require sellers to collect sales taxes based on the state to which delivery is made.

An even worse situation is that some states are beginning to claim that the mere presence of licensed intellectual property in their state is enough to create the obligation to pay income taxes to that state. For software, this is a big issue and for other forms of electronic intellectual property, such as books, video, and music, where those industries are looking at a licensing mechanism for distribution, these states will also be a big problem. While the sale of products is protected by federal law from such behavior on the part of the states, the states claim that law does not also protect end-user licensing of those very same products.

Finally, the lack of legal protection for the infrastructure providers (online service providers) from claims of unknowing libel, patent infringement, and copyright infringement threatens the viability of electronic commerce for electronically delivered products.

Mark Radcliffe
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(415)328-6561

The first hot issue is one of how does intellectual property get used on the Internet? The problem is that the Internet is by its nature global, whereas intellectual property laws are territorial. They vary from country to country—anything from the scope of protection (for example, in some countries software has a much narrower scope of protection than it does in the United States) to the term of protection (for example, in Europe copyrights go for the life of the author plus seventy years; in the United States it's only the life of the author plus fifty years, although there are some other rules for corporations). And how do you determine where an infringement takes place if you have a piece of software sitting on a server in the UK and somebody from Russia downloads it through a server in Finland. Is the infringement taking place in the UK, in Finland, in Russia, or in all three?

The second issue which is going to be difficult is the interaction between domain names and trademarks. Domain names are obviously your address on the Internet; trademarks are what you use to describe the source or quality of goods. The problem is, there is only one domain name worldwide under the "com" domain per commercial, whereas there may be many people using that particular word as a trademark. So you may have an Adobe which sells software in the United States, and, at least under the current system, you could theoretically have an Adobe that makes farm equipment and a different Adobe company that sells software in Australia ,and their trademark rights would not conflict as long as they don't enter one another's markets; but on the Internet there's only one *adobe.com* .

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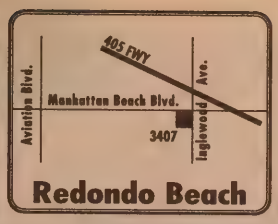

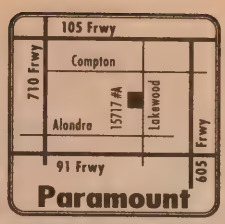

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Keeping Tabs On The Ephemeral...continued

Susan Nycum

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The problems arise from a number of different areas. One is that the world is shrinking, and so some of the challenges will be to harmonize the various ways of protecting intellectual property around the world. Presently, there are disparities around the world, and that's getting in our way because of the realities of commerce, which is now global. It's being helped by such things as GATT and NAFTA, but they really just provide a certain infrastructure; they don't complete the job. There'll be vested interests and there'll be regional interests and there'll be national interests and all those will get in the way, but the push is definitely toward a harmonized approach, not to say a uniform but a harmonized approach.

There's another thing, and that is that in the early '70s, when the Supreme Court first had a chance to look at software, they had a bad case before them and they didn't know what to do with it and they just said some garbage; but the fact of the matter was that it did not appear that there was patent protection for software. So when they had a chance, they didn't say to the Patent Office, "You guys better get smart here. You better start finding out the prior art, and you'd better train yourselves how to examine a patent application for a software-related invention." So now, twenty years later, there's all this hue and cry in the industry, "We shouldn't have patents for software because it's a bad thing." Now it turns out it's neither bad nor good; it's just that the Patent Office is not in a strong position to examine applications and doesn't know what the prior art is or isn't very skillful in getting hold of the prior art. So we're playing catch-up ball here with a big industry.

That's led a lot of people to feel that patents were inappropriate—laypeople. As a result, there has been some stretching of other forms of protection beyond where they should have been to cover the void that in other sciences would be covered by patents. So now what we get is ridiculous findings by courts in which they've had to pretend something in order to reach the result that everybody knew was the appropriate result under copyright, when, if it had been patented there would have been no event. And so my own feeling is that it's wise to have a strong patent capability for those situations in which it makes sense [?].

Mark Traphagen

Intellectual Property Counsel, Software Publishers Association
(202)452-1600

First of all, there's a pressing question about online service provider liability over telecommunications networks. At least under US law there's court doctrine that may hold service providers liable for copyright infringement they didn't know about. That's long been thought to be fair and has worked well in other industries, and our association is studying the issue now. It's likely to be a big issue in the legislation pending before Congress, which would make some changes.

The second issue has to do with the doctrine of fair use. Right now we've been working very hard, in a conference of schools and libraries, to figure out what kind of safe haven from copyright infringement will be available for schools and libraries. A lot of their plans for the future call for using telecommunications technology to make copyrighted works available to people in their homes, in their workplaces, all without having to be in the classroom or drive to the library. Certainly that's a very good social objective, but there's a very serious question about whether that widespread availability is going to undermine the market for computer programs and thus discourage investment in creating new ones.

The third issue is, what are we going to do internationally to handle the problems of transmission? Right now the US government and the European Commission seem to be tackling that problem; but we still have the rest of the world to worry about, and they don't respect copyright as strongly. For example, in China, when you take a country that has a 98% piracy rate and you add listservers and Web browsers and TurboGophers and Fetch applications, what kind of an infringement problem is the software industry going to have?

Those are all legal problems. A business-related problem is going to be figuring out how do we sell software in the future? As the networks come online, are we going to be facing a situation where people don't sell a full copy anymore but just charge for use? Is software going to be able to be downloaded without permission and the user will be responsible for paying a fee to a central collecting agency, which will then distribute the money to publishers? Or will the software be given away for free and we'll make our living off the services, as Esther Dyson says; which is fine as long as you're a comparative celebrity and your individual personality is sought after for its opinions and so forth. But for most publishers and developers that puts them on a treadmill, which is that the amount of money you can make is limited by the number of hours you can stay awake every day. And that discourages the kind of investment and development lead time that we're seeing is needed to produce new technologies and software.

John Gilmore

Cygnus
Cofounder, Electronic Frontier Foundation
Director, Cygus Support
(415)903-1400

The central issue is how to make a market for intellectual work without stifling intellectual ferment and creativity.

Clearly there are problems in maintaining a legal regime which diverges further and further from the physical world (i.e. defining copying as a heinous act, while it gets cheaper and easier and more automatic every year). And there are serious challenges to free expression, too; as John Perry Barlow says, "When your principal item of commerce is indistinguishable from speech, you are going to have problems maintaining freedom of speech."

My own answer has been to publish my works widely, for unrestricted copying, and make money in other ways. For example, by selling services related to my works. I figure this gets me some experience at living in the next century. Personal service will always be rewarded; it requires visible human labor. Making copies of strings of bits will not always be rewarded, since it doesn't.

As for how society will figure this out, I haven't the faintest idea. My guess is that individuals will change their behaviors more quickly than institutions and governments, and the institutions will be dragged along, kicking and screaming and making as much trouble as possible. There's lots more widespread trouble to come.

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Keeping Tabs On The Ephemeral ...continued

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Within the venture community I believe there are varying views on the value of patents and legal fortification of software innovations. Patents are expensive and many are not defensible. Also the creation of a patent is in effect the disclosure of technical progress to the entire competitor community. Historically, defense of patents within the software industry has been lax. But as software companies grow in size, many now have budgets for outside and inside counsel that work on defense of and creation of patents. All and all, patent activity—both in creation of and defense of—is increasing in the software industry.

Customers themselves do not go out and buy patents; they buy solutions. Creating intellectual property value in many ways is easier than creating a customer franchise. The customer franchise is a greater competitive fortification than intellectual property. Good product architectures, appropriate use of existing standards, creation of reusable core technology libraries, and even selection of the right deployment platforms are, for most software companies, more important issues than ownership of patents.

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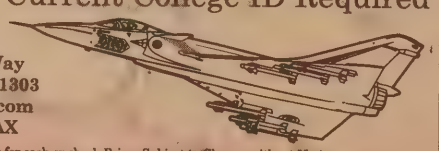

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In terms of multimedia negotiations for preexisting content, besides identifying what the rights issues are and locating the parties, the next step is discussing the strategy with the developer on how to best negotiate the deal to obtain the rights for the specified usage of the developer's product. In that regard, I have found that there are no set rates, there are no set standards on what the fees are, but that can really work to our advantage. For example, with a photographer whose photographs you're using and for which you've already handled the depiction rights, sometimes it's possible to actually negotiate to give credit listings and information—where they're going to be exhibiting, or where you can purchase their latest book—that can offset some of the monetary payments. The creative part and the really interesting thing is coming up with these creative suggestions, because maybe the money isn't as valuable as having this additional exposure.

It's mainly educating the content holders and establishing a sense of trust, educating them on what exactly is multimedia and the intent of your new product, and assuring them that you are in fact not going to manipulate or change, or if you are going to, letting them know that up front. Frequently, their material will be changed, and I don't find that generates an automatic negative response. They just really want to understand and know up front what it is you intend to do with it. The possibility of exposure to a whole new audience that these individual content holders might otherwise not be able to attract is very valuable to them. ■

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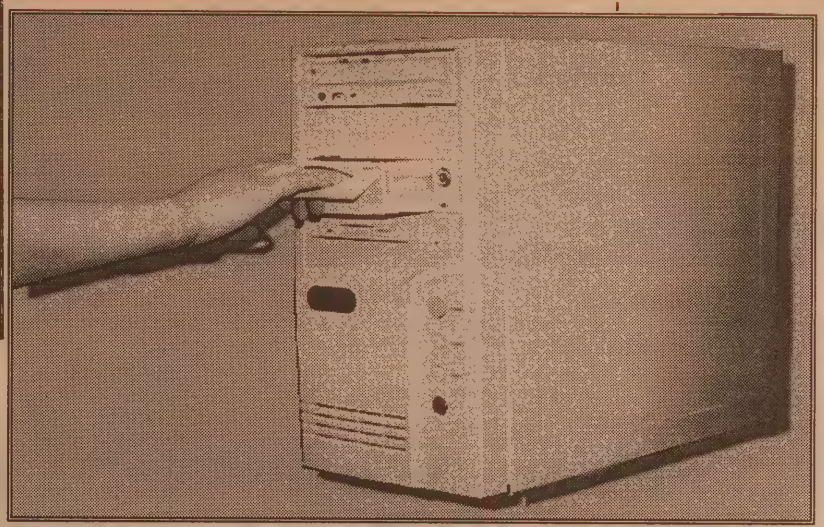

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FAX MODEMS

14.4 Fax Modem Internal	49
14.4 Fax Modem w/Voice Mail Internal	59
28.8/14.4 Fax Modem Internal v.34	119
28.8/14.4 Fax Modem w/Voice Mail Int v.34	159
US Robotics 14.4e Fax Modem Int	69
US Robotics 14.4 Fax Modem Ext	119
US Robotics 28.8 v.34 Fax Modem Int	189
US Robotics 28.8 v.34 Fax Modem Ext	209
US Robotics 28.8Vi Fax Modem/Voice Mail Int	219
US Robotics 28.8Vi Fax Modem/Voice Mail Ext	249
US Robotics 28.8 v.Everything Fax Modem Int	399
US Robotics 28.8 v.Everything Fax Modem Ext	439

CASES

Mini Tower Case/230W UL PS (5 Drive Bays)	39
Medium Tower Case/230W UL PS (8 Drive Bays)	59
Full Tower Case/250W UL PS (10 Drive Bays)	79
Desktop Case/230W UL PS (5 Drive Bays)	59

TAPE BACKUPS

IOmega Ditto 420MB Internal	119
IOmega Travan 800MB Internal	149
Colorado 350MB Internal	129
Colorado T-1000 Travan 800MB Internal	169
Colorado T-1400 Travan 1200MB Internal	249

SCANNERS

Logitech ScanMan 32 32-grey Hand-held Scanner	129
Logitech ScanMan 256 256-grey Hand-held Scann	199
A-4 WinScan Color Hand-held Color Scanner	179
Hewlett-Packard ScanJet 3p B&W Desktop Scanne	399
Hewlett-Packard ScanJet 3cx Color Desktop Scann	929

JOYSTICKS/DIGITIZERS

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A-4 Joystick	15
Logitech WingMan Flight Sim Joystick	59
CH Products Mach II Joystick	35
CH Products Mach III Joystick	45
CH Products Mach IV Joystick	59
GamePad	19

KEYBOARD/MOUSE

Enhanced 101-Key	15
Focus 6200 101 Key	39
Focus 7000 101 Key w/Trackball	39
Focus 9000 124 Key w/Calculator	49
Fujitsu K4700 101 Key	45
Microsoft Natural Keyboard	79
Hi-Res 3 Button Serial Mouse	9
Microsoft Serial	29
A-4 WinMouse Pen Mouse	25
A-4 WinTrack Trackball	29

SPEAKERS

10 Watt Amplified	9
60 Watt Power Amplified	29
115 Watt Super Bass Power Amplified	59
Sub Woofer Bass System for Multimedia	79

SOFTWARE

Microsoft DOS 6.22/Windows for Workgroups 3.11	89
Microsoft Windows 95 (for systems only)	89
Microsoft Windows 95 Upgrade Version	89
Microsoft Office Standard 95 Upgrade Version	229
Microsoft Office Professional 95 Upgrade Version	329
Microsoft Home Bundle (for systems or kits only)	59
Novell Perfect Office Suite (for systems only)	99

PRINTERS

Brother HL630 Laser	379
Hewlett Packard Deskjet 600C	299
Hewlett Packard Deskjet 660C	399
Hewlett Packard Deskjet 855C	529
Hewlett Packard Laserjet 5L	499
Hewlett Packard Laserjet 5P	899
Canon BubbleJet BJ-220e	219
Canon BubbleJet BJC-4100	369
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Ethernet 16-bit Jumperless Combo (BNC/RJ)	29
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$789 486DX2-80	
$819 486DX4-100	

MULTIMEDIA SYSTEM OPTIONS

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$969 486DX2-80	
$999 486DX4-100	

MULTIMEDIA SYSTEM OPTIONS

CD-ROM Type	DX2-66	DX2-80	DX4-100
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$1,169 Pentium 90	
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MULTIMEDIA SYSTEM OPTIONS

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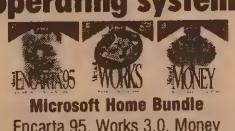

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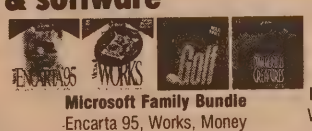

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Yikes! Tons of Software!

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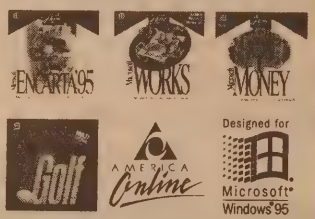

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- Microsoft Encarta 95 Encyclopedia
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- Mosaic Internet Browser
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HomePC Pro

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- **540MB IDE** Hard Drive (upgrade to 1.08GB for $75)
- **3.5" 1.44MB** High Density Floppy Drive
- **32-bit PCI Enhanced IDE-I/O** Controller
- **32-bit PCI SVGA** Graphics Accelerator
- **14"** Super VGA Non-Interlaced Monitor (0.28)
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- **Deluxe Mini Tower** Case/**230W** PS
- Enhanced **101-key** Keyboard & **Hi-Res** Mouse
- Internal 14.4 Fax/Modem w/Internet Access Software UPGRADE TO 28.8 FAX MODEM FOR $100
- Voice Mail Automated Messaging System
- Quad Speed Enhanced IDE CD-ROM
- 16-bit Multimedia Stereo Sound Card
- 60 Watt Multimedia Stereo Speakers

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MPC Multimedia PC

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Yikes! Tons of Software!

It comes with lots of software like Microsoft DOS, Microsoft Windows, WordPerfect, Quattro Pro, Paradox, Grolier's 1995 21 Volume Encyclopedia, America Online, and much, much more!

OVER $1500 WORTH OF OFFICE SOFTWARE INCLUDED!

- Microsoft Windows 95 Operating System **or** DOS 6.22/Windows for Workgroups 3.11
- Novell Perfect Office Suite including: WordPerfect 6.1 for Windows (word processing) Quattro Pro 6.0 for Windows (spreadsheet) Paradox 6.0 for Windows (database) plus Envoy, GroupWise & InfoCentral
- Grolier's 1995 Multimedia Encyclopedia
- BitWare fax modem software for Windows
- Mosaic Internet Browser
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OfficePC Plus

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- **540MB IDE** Hard Drive (upgrade to 1.08GB for $75)
- **3.5" 1.44MB** High Density Floppy Drive
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PowerStations

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FINANCE $45*

8MB RAM • 635MB EIDE-4 HD • 14" MONITOR

- Intel Pentium-75/90/100/120 MHz
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- **256K Write-back static** Cache
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- **2 Hi-Speed 16550 UART Serial Ports**
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$1,269 Pentium 90
$1,299 Pentium 100
$1,499 Pentium 120

MULTIMEDIA SYSTEM OPTIONS

CD-ROM Type	P75	P90	P100	P120
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6X IDE CD-ROM	$1,499	$1,569	$1,599	$1,799

Multimedia systems come with CD-ROM, 16-bit Stereo Sound Card, Grolier's Encyclopedia, U.S. Atlas, World Atlas, ChessMaster 4000 Mavis Beacon Teaches Typing and pair of speakers

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FINANCE $64*

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- Intel **Triton Chipset (Up to 70% Faster)**
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- **3 PCI** Local Bus Slots & **4 ISA** Slots
- **16MB** Fast RAM, expandable to **128MB**
  UPGRADE TO EDO MEMORY - ADD $100
- **256K Write-back static** Cache
  UPGRADE TO SYNCHRO-BURST CACHE - ADD $95
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- Bus Mastering **PCI Mode 4 Enh IDE** Controller
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- **ECP/EPP Enhanced Parallel** Port
- **Deluxe Medium Tower** Case/**230W** PS
- Enhanced **101-key** Keyboard & **Hi-Res** Mouse

$1,719 Pentium 90
$1,749 Pentium 100
$1,949 Pentium 120
$2,149 Pentium 133

MULTIMEDIA SYSTEM OPTIONS

CD-ROM Type	P90	P100	P120	P133
2X IDE CD-ROM	$1,879	$1,909	$2,109	$2,309
4X IDE CD-ROM	$1,919	$1,949	$2,149	$2,349
6X IDE CD-ROM	$2,019	$2,049	$2,249	$2,449

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FINANCE $89*

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- Intel **Pentium-90/100/120/133 MHz**
- Intel **Triton Chipset (Up to 70% Faster)**
- Plug'n Play Flash BIOS (Ready for Windows 95)
- **3 PCI** Local Bus Slots & **4 ISA** Slots
- **16MB** Fast RAM, expandable to **128MB**
  UPGRADE TO EDO MEMORY - ADD $100
- **256K Write-back static** Cache
  UPGRADE TO SYNCHRO-BURST CACHE - ADD $95
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- **3.5" 1.44MB** High Density Floppy Drive
- Bus Mastering **PCI Mode 4 Enh IDE** Controller
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  Diamond Stealth 64 Video SVGA Accelerator/2M VRAM
- **17"** Flat SVGA NI Monitor (1280x1024/0.28)
- 2 **Hi-Speed 16550 UART Serial Ports**
- **ECP/EPP Enhanced Parallel** Port
- **Deluxe Medium Tower** Case/**230W** PS
- Enhanced **101-key** Keyboard & **Hi-Res** Mouse

$2,369 Pentium 90
$2,399 Pentium 100
$2,599 Pentium 120
$2,799 Pentium 133

MULTIMEDIA SYSTEM OPTIONS

CD-ROM Type	P90	P100	P120	P133
2X IDE CD-ROM	$2,529	$2,559	$2,759	$2,959
4X IDE CD-ROM	$2,569	$2,599	$2,799	$2,999
6X IDE CD-ROM	$2,669	$2,699	$2,899	$3,099

Multimedia systems come with CD-ROM, 16-bit Stereo Sound Card, Grolier's Encyclopedia, U.S. Atlas, World Atlas, ChessMaster 4000 Mavis Beacon Teaches Typing and pair of speakers

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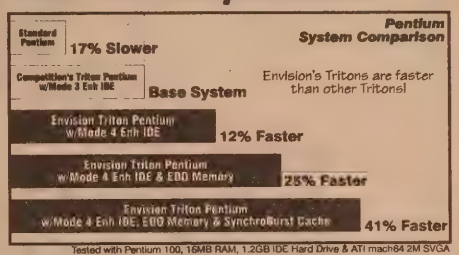
Pentium System Comparison
Standard Pentium
17% Slower
Competition's Triton Pentium w/Mode 3 Enh IDE
Base System
Envision's Tritons are faster than other Tritons!
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Envision Triton Pentium w/Mode 4 Enh IDE, EDO Memory & SynchroBurst Cache
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Tested with Pentium 100, 16MB RAM, 1.2GB IDE Hard Drive & ATI mach64 2M SVGA

Intel Triton Power

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64-bit Pentium Processor

At the heart of every Envision PowerStation is Intel's advanced 64-bit Pentium Processor giving you superfast computing to handle even the most power hungry user. So whetever you do technical drawings, graphics design or just want to play the hottest new game, Envision PowerStations have the power you need to blaze!

New SynchroBurst Cache Architecture

Over the past few years, CPUs have dramatically increased in speed and performance. Unfortunately, memory technology has stood still over those years creating bottlenecks and slowing overall performance of computers. All that will change with Envision's new SyncBurst cache architecture which provides a synchronous data channel allowing twice as much data to flow from CPU to memory alleviating bottlenecks while letting your computer operate at peak performance. SychroBurst is available as an option on all Triton PowerStations

EDO (Extended Data Output) Memory

Get more performance with EDO memory which provides double the bandwith between your CPU & memory (100MB/s vs. 200MB/s) giving you up to another 11% more performance. EDO is available on all Triton Systems as an upgrade option.

Bus Mastering Mode 4 Enhanced IDE

With Triton, you get Mode 4 Enh IDE hard drives with even faster hard drive data transfer rates of 16.67MB/s. Combine that with the new built-in bus-mastering PCI IDE interface, which takes the load of handling hard drive data transfer operations off the CPU, and you get performance that's up to twice as fast Mode 3 hard drives and five times faster than standard IDE hard drives.

Award Winning 64-bit Accelerators

PC MAGAZINE EDITORS' CHOICE

All Envision Pentium systems (except Pentius) incorporate award winning 64-bit graphics accelerators from ATI or Diamond for maximum graphics power. The mach64, winner of PC Magazine's Editor's Choice, offers unmatched video performance plus motion video acceleration to make your graphics and movie clips fly accross your screen!.

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- Intel **Triton Chipset (Up to 70% Faster)**
- Plug'n Play Flash BIOS (Ready for Windows 95)
- **3 PCI** Local Bus Slots & **4 ISA** Slots
- **16MB** Fast RAM, expandable to **128MB**
  UPGRADE TO EDO MEMORY - ADD $100
- **256K Write-back static** Cache
  UPGRADE TO SYNCHRO-BURST CACHE - ADD $95
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- Bus Mastering **PCI Wide SCSI-3** Controller(20MB/s)
- **64-bit PCI ATI mach64 SVGA** Accelerator/2M **OR**
  Diamond Stealth 64 Video SVGA Accelerator/2M
- **17"** Flat SVGA NI Monitor (1280x1024/0.28)
- 2 **Hi-Speed 16550 UART Serial Ports**
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- **Deluxe Medium Tower** Case/**230W** PS
- Enhanced **101-key** Keyboard & **Hi-Res** Mouse

$2,569 Pentium 90
$2,599 Pentium 100
$2,799 Pentium 120
$2,999 Pentium 133

MULTIMEDIA SYSTEM OPTIONS

CD-ROM Type	P90	P100	P120	P133
4X IDE CD-ROM	$2,769	$2,799	$2,999	$3,199
6X IDE CD-ROM	$2,869	$2,899	$3,099	$3,299
6X SCSI CD-ROM	$2,969	$2,999	$3,199	$3,399

Multimedia systems come with CD-ROM, 16-bit Stereo Sound Card, Grolier's Encyclopedia, U.S. Atlas, World Atlas, ChessMaster 4000 Mavis Beacon Teaches Typing and pair of speakers

Triton Eliminator

FINANCE $131*

32MB • 2.1GB WIDE SCSI-3 HD • 17" MONITOR

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- Intel **Triton Chipset (Up to 70% Faster)**
- Plug'n Play Flash BIOS (Ready for Windows 95)
- **3 PCI** Local Bus Slots & **4 ISA** Slots
- **32MB** Fast RAM, expandable to **128MB**
  UPGRADE TO EDO MEMORY - ADD $200
- **256K Write-back static** Cache
  UPGRADE TO SYNCHRO-BURST CACHE - ADD $95
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- **3.5" 1.44MB** High Density Floppy Drive
- Adaptec 2940W **PCI Wide SCSI-3** Controller(20MB/s)
- **64-bit PCI ATI mach64 SVGA** Accelerator/2M **OR**
  Diamond Stealth 64 Video SVGA Accelerator/2M
- **17"** Flat SVGA NI Monitor (1280x1024/0.28)
- 2 **Hi-Speed 16550 UART Serial Ports**
- **ECP/EPP Enhanced Parallel** Port
- **Deluxe Medium Tower** Case/**230W** PS
- Enhanced **101-key** Keyboard & **Hi-Res** Mouse

$3,469 Pentium 90
$3,499 Pentium 100
$3,699 Pentium 120
$3,899 Pentium 133

MULTIMEDIA SYSTEM OPTIONS

CD-ROM Type	P90	P100	P120	P133
4X IDE CD-ROM	$3,669	$3,699	$3,899	$4,099
6X IDE CD-ROM	$3,769	$3,799	$3,999	$4,199
6X SCSI CD-ROM	$3,869	$3,899	$4,099	$4,299

Multimedia systems come with CD-ROM, 16-bit Stereo Sound Card, Grolier's Encyclopedia, U.S. Atlas, World Atlas, ChessMaster 4000 Mavis Beacon Teaches Typing and pair of speakers

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28.8/14.4 Fax Modem Internal v.34	119	IOmega Int 800MB Tape Backup	149
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US Robotics 28.8 Int Fax Modem v.34	189	Windows 95 Full Version	89
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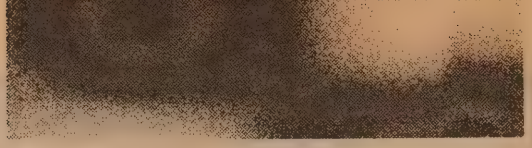

Scientology Versus The Internet

Debate Rages Over Free Speech, Copyright, Trade Secrets, Freedom Of Religion, And Other Crucial Issues

Copyright law, trade secrets, and the Internet are providing the kindling—and the Church of Scientology is supplying the spark—for a heated debate over freedom of speech and intellectual property. An ongoing battle between the church and several former Scientologists has now evolved into a bigger controversy regarding the church's methods of dealing with its critics and the issue of how much the public has the right to know about the religion. While debate has centered on religion and censorship, the legal issues in these cases could have far-reaching implications for the Internet.

The battle began with the posting of excerpts of secret scriptures, known as "the Advanced Technology," by a number of former church members around the world. According to the church, these documents may only be read by those who have had extensive spiritual training. The revelation of these documents to those not sufficiently trained, the church said, "could impede parishioners' spiritual progression, and out-of-context exposure to the materials can create misunderstanding."

The church's critics say the Advanced Technology is available only to those who have been thoroughly indoctrinated because, to the uninitiated, the documents are absurd and would cause potential new members to dismiss the religion outright.

To combat the distribution of portions of these texts, the church has sued many of these critics and has obtained the cooperation of the authorities for raids on the critics' systems and software. Also named in these suits have been the bulletin boards and Internet providers involved, a tactic that critics contend could result in the chilling of free speech on the net.

THE TACTICS OF THE CHURCH IN NAMING SYSTEM OPERATORS AND INTERNET SERVICE PROVIDERS IN ITS SUITS HAVE AN IMPACT THAT GOES FAR BEYOND THE DISAGREEMENTS BETWEEN THE CHURCH AND ITS FORMER MEMBERS.

Erlich's Dissident BBS

One of the more celebrated cases is that of former church member Dennis Erlich, a Glendale, California, system operator who was a Scientologist for fifteen years. Erlich's last years in the church were spent as one of Scientology's top educational officials. It was his job to study all of Scientology's principles and documents and to know the written materials well enough to correct and retrain other Scientologists who made mistakes.

After breaking from the church, Erlich began a bulletin board to discuss Scientology. The service recieved anonymous postings, and Erlich reviewed the material for accuracy. What was accurate, he said, he posted to his bulletin board. Erlich admits to posting "a few" of his own messages, including excerpts from church documents he had studied so intently as a member, to his service.

Erlich, who is bitter about the time he spent in the church, says that publishing the excerpts about the religion was his method of providing a public service: "The public interest needs to be served, and I'm putting my ass on the line to make sure this information is available to the public. I'm doing this as a way to make up to the public for the fifteen years of work I did for the Church of Scientology helping them to bilk people."

But what was a public service to Erlich was a copyright infringement to the church. In February, Erlich's home was raided by a Glendale policeman and seven other people, including Scientology attorney Thomas Small, with a writ of civil seizure. They seized Erlich's hard drive and computer equipment, and, prior to deleting what they said were infringing files, Erlich says, church officials copied the whole of his hard drive: "They brought a 250MB Colorado hard disk in and plugged it right in, and, believe me, I know when my drive is being backed up."

Although a judge in San Jose later vacated the initial order for the raid and ordered the return of Erlich's equipment and files, Erlich

continued on page 216

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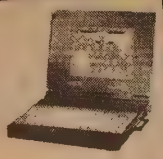

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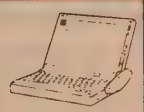

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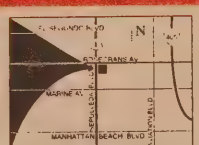

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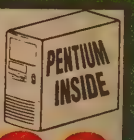

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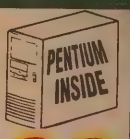

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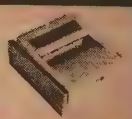

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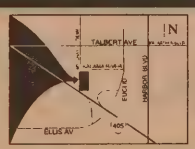

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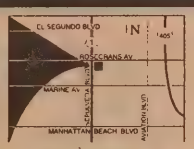

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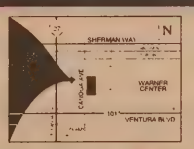

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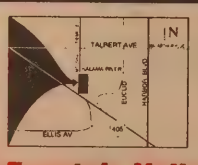

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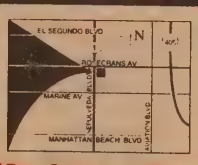

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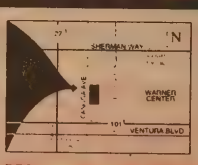

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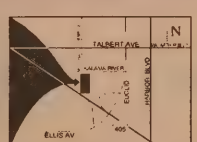

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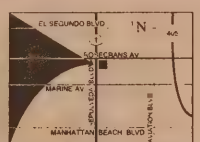

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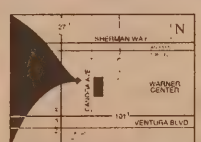

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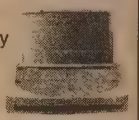

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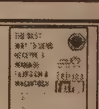

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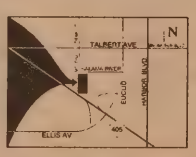

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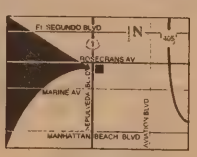

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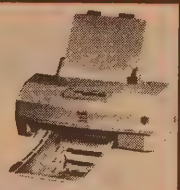

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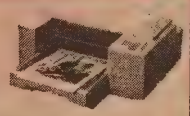

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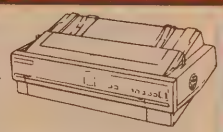

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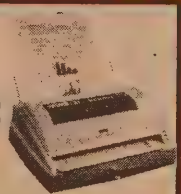

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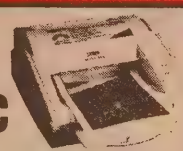

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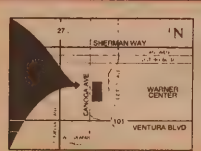

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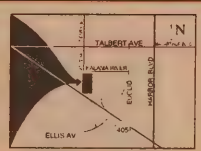

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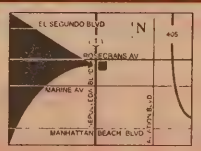

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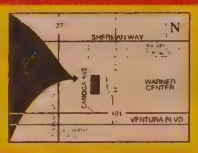

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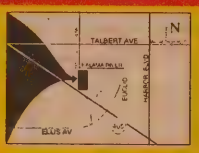

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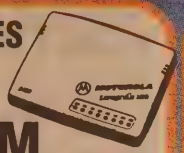

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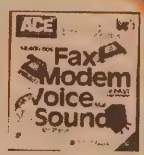

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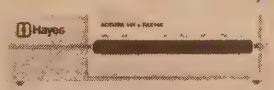

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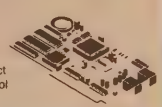

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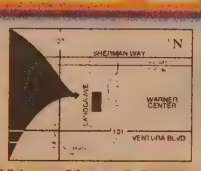

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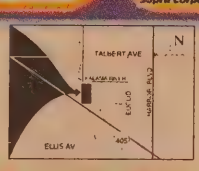

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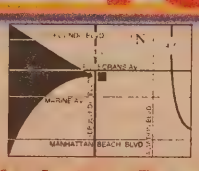

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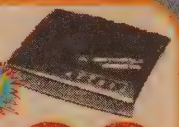
MODEMS

MOTOROLA BitSURFER PRO ISDN MODEM



Motorola's BitSURFER Pro ISDN modem is a high-speed terminal adapter that lets you access the power of ISDN for all you home and office communications. Four times faster than the fastest analog modem- 128,000 bps, Two analog device ports, Multilink PPP, Custom calling features, Simultaneous voice and data on a single ISDN line, Window 95 compatible.
#2093877

$399

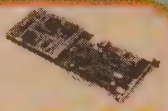
ISDN EXTERNAL DIGITAL MODEM

The fastest digital modem technology. 128 kbps, four times faster than the fastest analog modems, simultaneous voice, data, fax. Windows* 95 Compatible
#2090335

3Com

$449

US Robotics SPORTSTER SI 14.4 INTERNAL DATA/FAX MODEM



- USRobotics quality matched with Rockwell chips
- New WinRPI software based V.42 and V.42BIS data compression
- Universally compatible with all standards of ITU-T (formally CCITT) Up to V.32 BIS
- Supports the AT command set

#2050562

$52.99

28,800 BAUD INTERNAL FAX/MODEM w/V.34

- Class 1 and 2
- Supports up to Com 1-4 and IRQ-3,4,5
- 5 Year Warranty

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SIIG

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14,400 Baud Modem/Fax
Super High Speed V.32 BIS Protocol
Quick Link II communication Software
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$79.99

PRACTICAL PERIPHERALS 14,400 BAUD MINI TOWER FAX/MODEM EXTERNAL

V.32 and V.42 Bis
Quick Link II Communication Software
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$99.99

BOCAMODEM V.34 28,800 bps External Fax/Modem

New International Standard
- 28,800bps Data Modem
- 14,400bps Send/Receive Group 3 Fax
- V.42bis Data Compression for Troughput Up to 115,200bps
- Backward Compatible with V.Fast Class (V.FC) and Lower Speed Modems
- Five Year Warranty

#1981878

$188

BOCAMODEM V.34 28,800 bps Internal Fax/Modem

New International Standard
- 28,800bps Data Modem
- 14,400bps Send/Receive Group 3 Fax
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- High-Speed 16C550 UART Serial Card on board
- Backward Compatible with V.Fast Class (V.FC) and Lower Speed Modems
- Five Year Warranty

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High Speed Modem Coupler

CONNECTS A PORTABLE COMPUTER TO ANY TELEPHONE EASILY.

- Accoustic coupling with telephone handset
- Industry standard telephone to modem connector RJ-11
- Full or Half Duplex Communication Mode

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V.42 bis, V.42 bis • Communication Software
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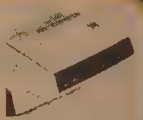
DESKPORT 28.8 EXTERNAL MODEM



FULLY V.34 COMPLIANT

- Parallel Port Interface for true 28,800 bps throughputs in Windows-Standard Serial
- 14,400 bps Group III Fax
- Compatible with 28,800 (V.34 and V.FC),14,400, 9600, 1200 and 300 bps modems
- APT- licensed with Windows 95* (Advanced Parallel Technology)

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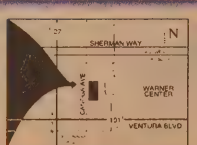

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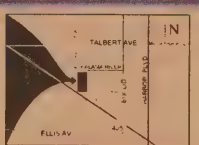

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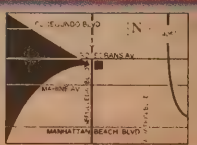

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MONITORS

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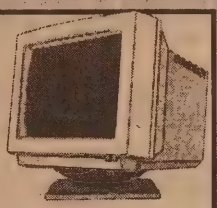

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Non-Interlaced
1280 x 1024

15" SUPER VGA MONITOR

Non-Interlaced • .28 dpi • Flat Screen
Digital Control

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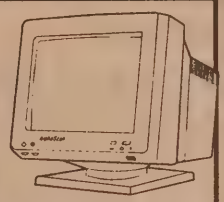

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• Digital Control

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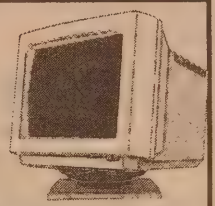

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Built-in Speakers with Amplifier • Headphone Jack

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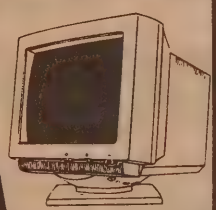

CM 4015 15" SVGA 1280 X 1024 NON-INTERLACED

• 28 mm dot pitch • Digital control • 30-64 KHz
• HI-Refresh

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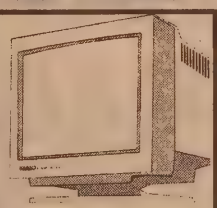

CM 4018 17" SVGA LARGE SCREEN NON-INTERLACED

• 1280 X 1024 • Non-Interlaced
• 28mm dot pitch • Digital Control • 30-66KHz

$795

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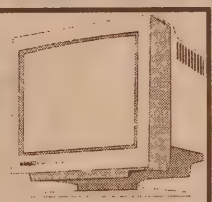
NANAO

Non-Interlaced



17" FLAT SCREEN MONITOR

1280 x 1024 • Flat Screen • .28mm dot pitch
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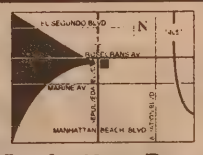

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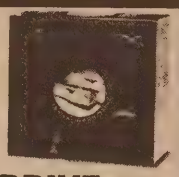

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- Redline! Disk Utilities • Stackable
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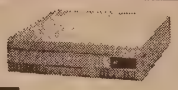

1.2 GIGABYTE EXTERNAL HARD DRIVE FOR MACINTOSH®

NU DESIGN

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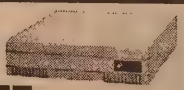
MODEL 1.2
#1850682



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External, removeable Syquest hard drive with one 200MB Cartridge and cables.

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- Average Seek Time: 30ms typ
- SCSI 2 Interface
- 50 pin DB centronics (input)
- One Inch Height

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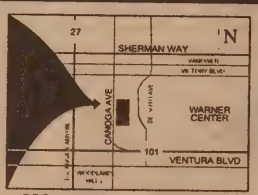

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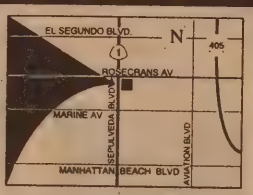

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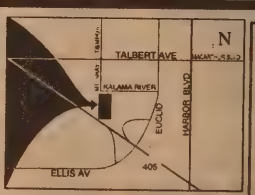

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- 11ms Fast Seek Time
- 256K Buffer
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- 3.5" X 1"
- Regular straight through 50 pin connector

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540MB SCSI-II HARD DRIVE

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- 14ms Seek Time
- 128K Buffer
- 2 year warranty

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- 3.5" X 1"

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- 512K Buffer
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8.6ms Fast Seek Time
3.5 X 1.6 • 7200RPM
5 Year Warranty • 512K Buffer
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FOR PC		FOR MAC	
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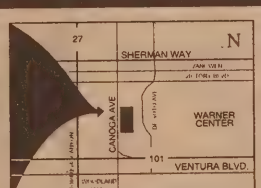

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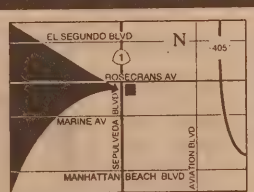

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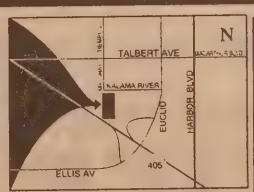

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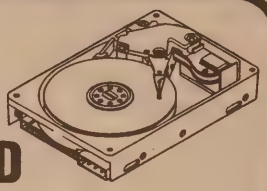

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- 4500 RPM • 2-Year Warranty

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- <12msec Seek Time
- 64K Buffer
- 2 year warranty

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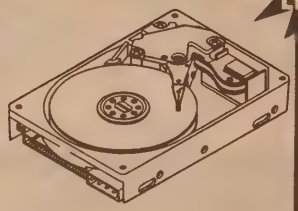
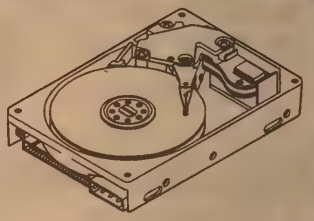


540MB IDE HARD DRIVE

3.5" X 1/2" ht. • 14ms Seek Time • 120K Buffer
3 Year Warranty
#1984918

$162

IBM


DESKSTAR 540MB FAST ATA-2 HARD DRIVE

- 3.5" X 1" HT. • 12msec Average Seek Time
- 128KB Buffer
- 4500 RPM
- 3 Year Warranty

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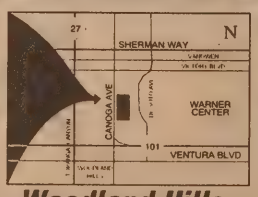

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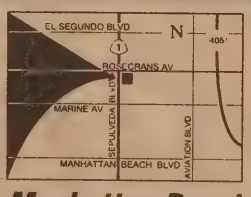

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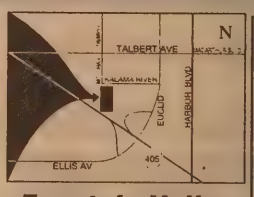

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- 4500 RPM
- 3.5" X 1"

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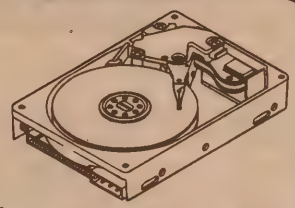

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- 3 Year Warranty

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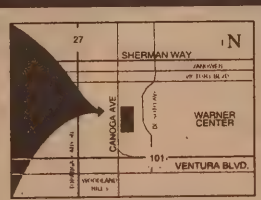

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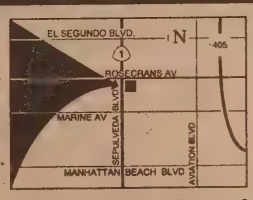

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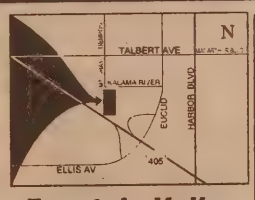

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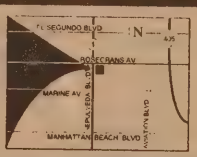

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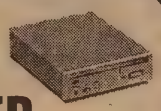

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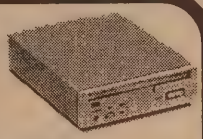

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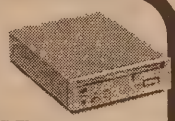

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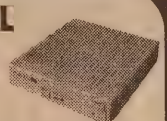

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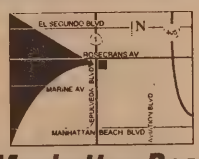

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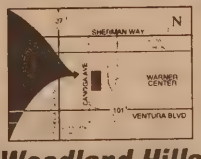

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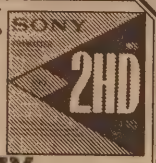

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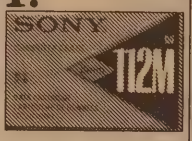

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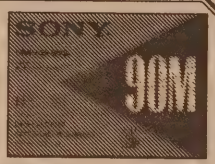

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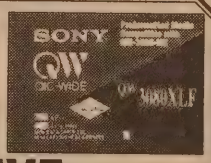

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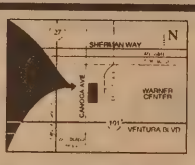

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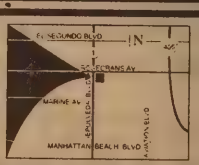

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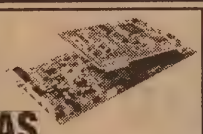

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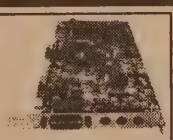

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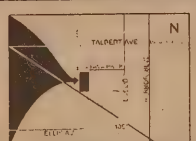

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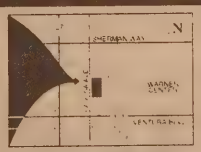

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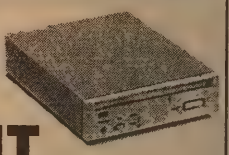

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- 600KB per second data transfer rate
- 128KB cache memory
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- 10 CD Titles including Groliers Multimedia Encyclopedia 1995

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- Several easy installation tools

Value

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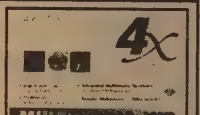

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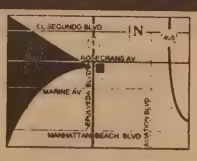

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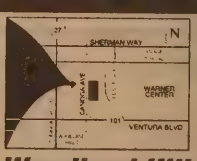

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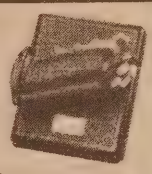

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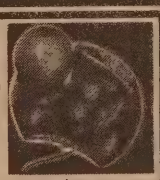

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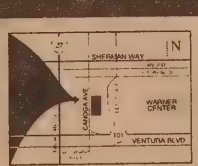

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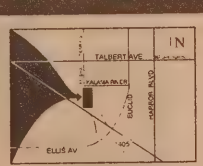

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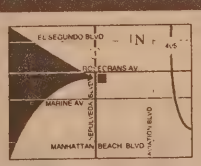

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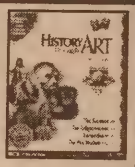

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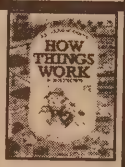

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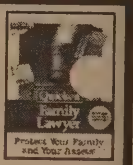

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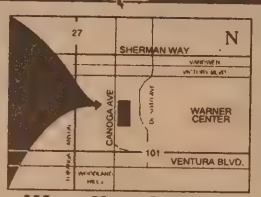

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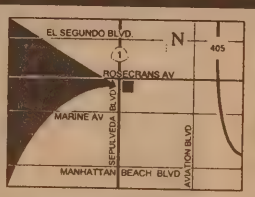

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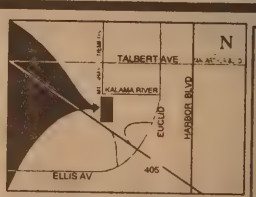

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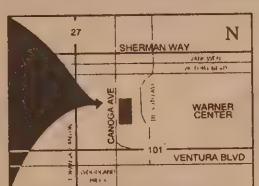

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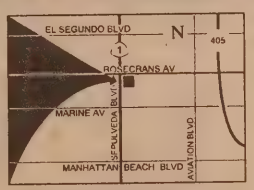

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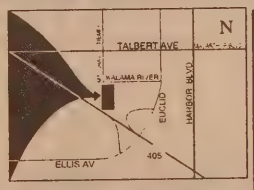

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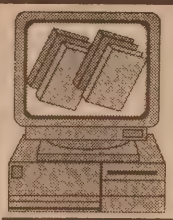

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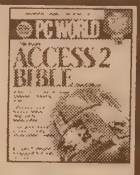

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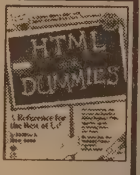

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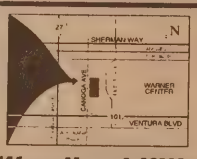

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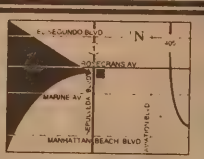

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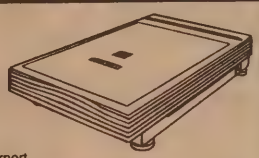

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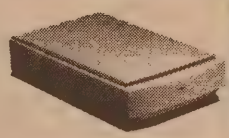

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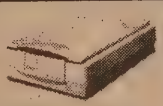

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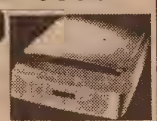

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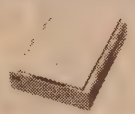

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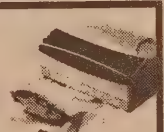

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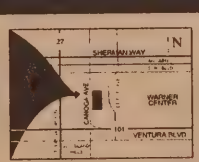

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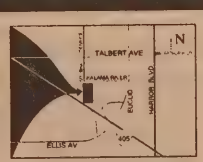

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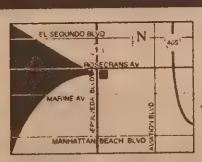

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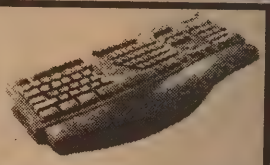

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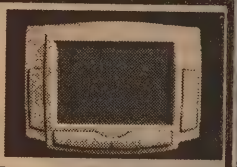

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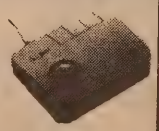

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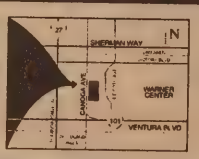

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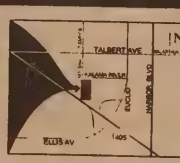

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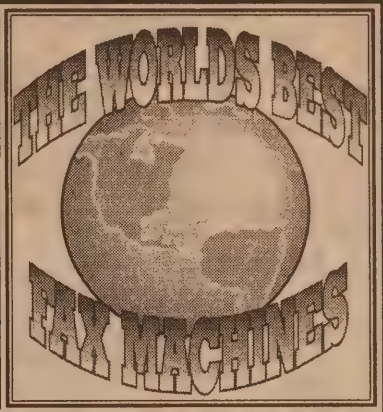

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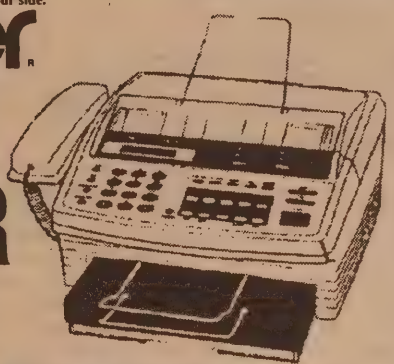

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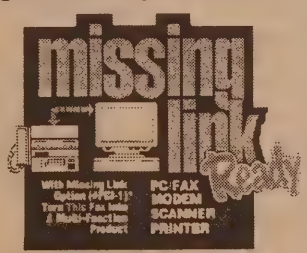

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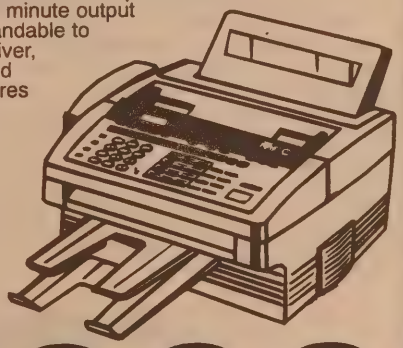

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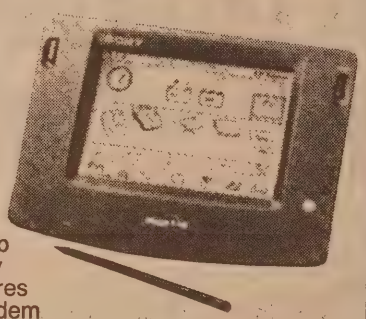

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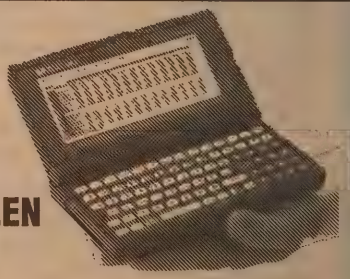

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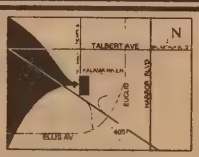

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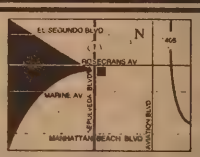

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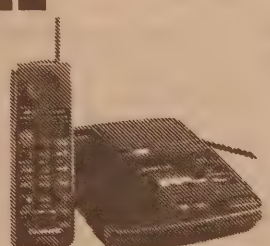

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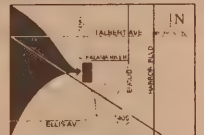

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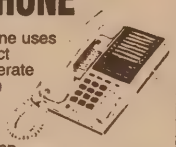

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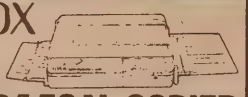

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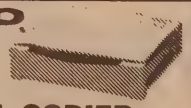

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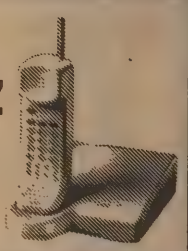

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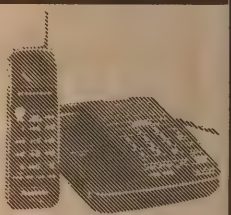

This palm-sized 900MHz cordless phone comes equipped with dual keypad speakerphone for handsfree operation, 30 channel autoscan, intercom with 2-way paging, 20 number memory, a dual battery charging system, flash, hold, and last number redial. An excellent addition to any home or office at..

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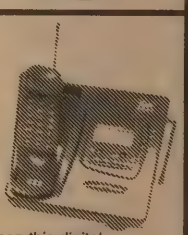

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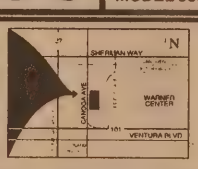

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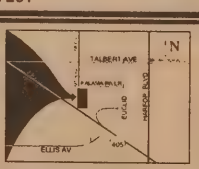

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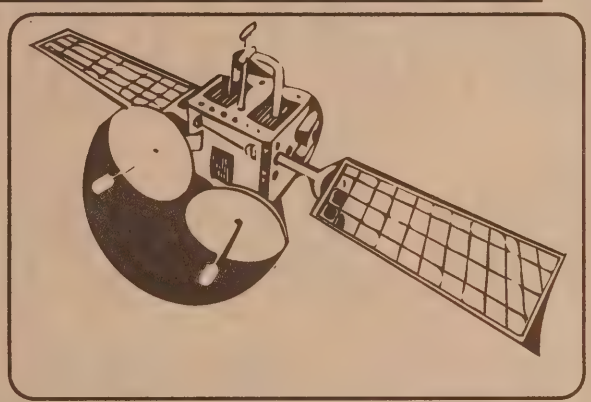

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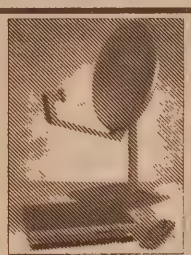

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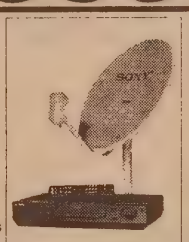

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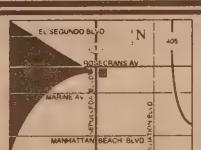

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MULTIMEDIA 101

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- **Amiga Draco**
  First Look At The High Power "Amiga Compatible" Workstation.....
- **Multimedia**
  Effective For Learning

Interactive Storytelling With John Sanborn

The Making Of Psychic Detective

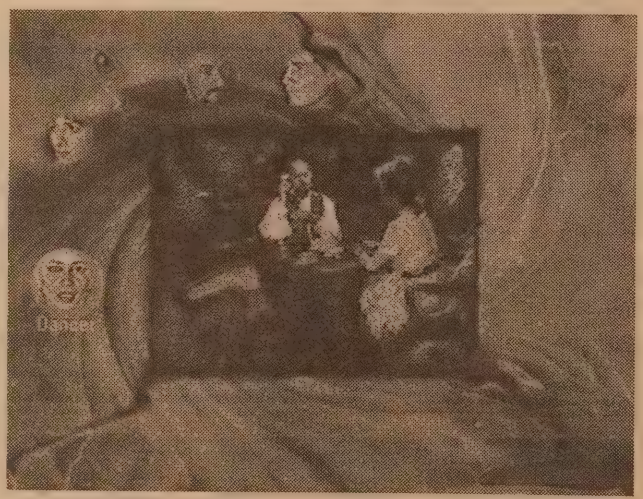
Whether people want computers to tell them stories, and how to make those stories interactive, are questions that have sparked plenty of lively debate in the interactive multimedia world.

The reductionist camp maintains that storytelling has always been, or was at least originally, an interactive art, with listeners firing questions at the storyteller, who then weaves the listeners' curiosity into the fabric of his or her tale. Obviously, the parents of any five-year-old will recognize that this approach to storytelling is still alive and well.

The auteuristic camp takes the opposing position: that the storyteller descends from the heights of artistic inspiration with a cut-and-dried drama that would completely unravel should one thread be tugged at. This is close to the modern, mass-media type of top-down storytelling that we're almost continuously subjected to.

Of course, under either scenario, there is interaction between the story and the storyteller as he or she molds the story elements into a personally pleasing shape.

When computers enter the story with their abilities to store, edit, manipulate, and display dramatic events—and, more importantly, sequences of alternative events—the possibility arises that you, the listener, viewer, user, or player, can interact with a story in a more complete way than the auteuristic camp finds artistically feasible or comfortable. Cries about the lack of credible character development and coherent timelines, not to mention dramatic resolution, are quickly raised—cries which, until recently, appeared to carry some weight.



A prime reason these objections weighed much was because, as is so often the case in the multimedia world, the practice hadn't quite caught up with the progressive theories. In this case, the theories arguing against the possibilities were also too narrowly focused and were often based on the obvious failures of what limited practice there was.

John Sanborn, director of *Psychic Detective*, tackles the controversy head on: "The most important thing about anybody who sets out hard and fast paradigms about the interactive world is that it's bullshit. Today's paradigm is tomorrow's luncheon loaf. They don't last—that's what's so great about it. Whatever's been done before you can literally throw away. There's no history in multimedia, you can make it up, you really can make it up.

"I think you can take the best aspects of games, which are the world you can control—the set of rules, and your own playing ability

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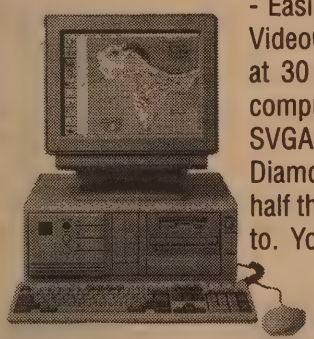

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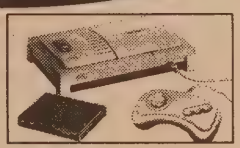

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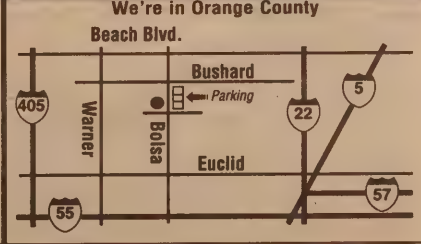


with and against those rules—and you can take the best aspects of movies—characters you appreciate, characters you're emotionally invested in, changes that happen to those characters that you can control or that you are emotionally attached to, plot elements that are cleverly structured so that that character goes through emotional changes—and you, identifying with that character, go through the emotional changes, and there is some semblance of enlightenment. Put those two together and you've got an interactive movie or you've got a game movie or a movie you can play or whatever you want to call it."

You might consider this typical blowhard self-hype from another egotistical artist, but even a brief look at *Psychic Detective* and an hour's conversation with Sanborn indicate that he's made impressive progress in designing a story that allows for a fair degree of interactivity.

TELLING TALES WITH THE PSYCHIC DETECTIVE

Sanborn describes *Psychic Detective* as "a comedy mystery," a genre likely to work well with interactivity. It's not too serious, so there's a built-in playful aspect. You're likely to approach it with readily suspended disbelief. Mysteries invite interactivity through the audience's desire to figure out "whodunnit" or "whytheydunnit."

In the case of *Psychic Detective*, the excuse for computer-enabled interactivity is that the hero, Eric Fox, is, well, a psychic detective. Sanborn explains, "We have a host of different ways to interact. Basically, you're controlling Eric Fox, the PD. You can transmit into other peoples' heads, one of his psychic abilities—which means that you can jump out of your body psychically into somebody else's head, so you're seeing the world through their eyes and hearing it through their ears. Which obviously for a PD is really great, because your body can be over there and your brain can be over here. You can see and hear and know things that you couldn't from physical confrontation. Another thing you can do is that you can touch an object and get a retrocognitive flash from that object, so you get back story."

At the climax of the drama, you as Eric Fox are in a psychic showdown battle with the evil genius who has set the whole sequence of murderous events in motion. To win, you must know how to play the Black Diamond game, which you can learn from clues picked up from other characters as you progress through multiple versions and replays of events.

All told, *Psychic Detective* has 740 linked digital movies leading up to sixteen possible endings, depending on how well you've paid attention and learned various secrets as you've jumped from one character's head into another, followed them around, and selected which objects to pick up for your "retrocognitive flashes."

TELLING ALL THOSE STORIES

Sanborn got into interactive storytelling along with *PD's* screenwriter, Michael Kaplan, through working on Marc Canter's *Meet MediaBand*. The focus with that project was to first create the "Myth of the MediaBand," the back story, and then to develop the devices to tell a story or make a song work interactively.

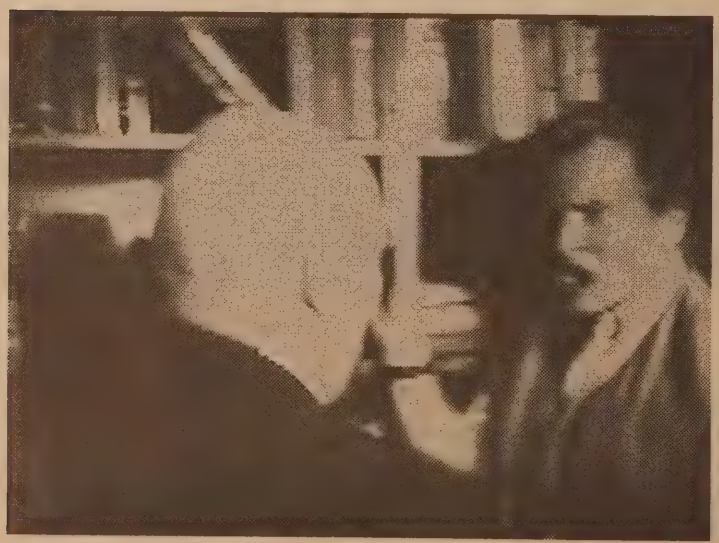
As Sanborn readily admits, "We really didn't know what we were doing. There was no one guiding us. We were looking at everything that was coming out and it was all environment-based searching, the *Myst* model. No one was really tackling the idea where the content was moving forward—where you must listen to and pay attention to what's going on, and then you must mold it at certain juncture points."

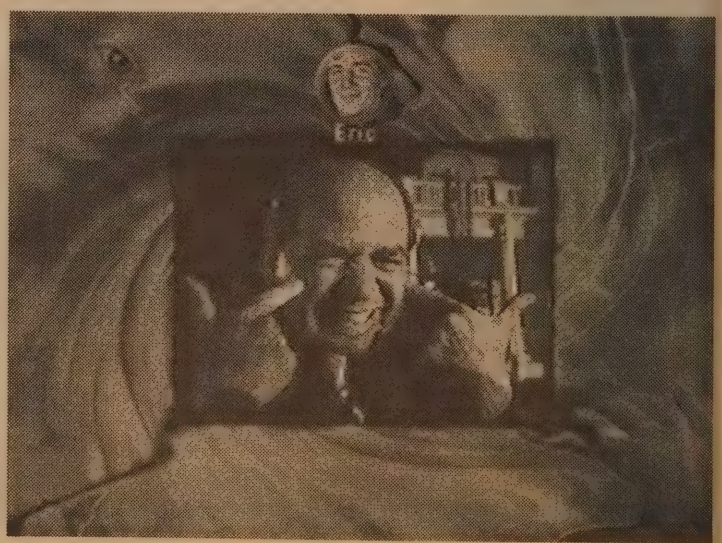
Eventually, through a process of trial and error and building on traditional storytelling techniques, they came up with some principles and techniques that made *Meet MediaBand* a significant step forward in interactive music video, and which they have expanded upon for *Psychic Detective.*

The very first lesson had nothing to do with technology. It came down to simple dramatic point of view. Sanborn explains, "There are some basic elements in dramas that are shared by pop music; then there are divergent elements which are interesting if you bring them into the pop music arena. The first thing that's most interesting, and is shared by different dramatic forms and by pop music, is point of view—who is talking in the song."

Once they understood that and had thought a bit about how the speaker spoke—"the nature of the poetic enunciation—do you say it plain, do you say it couched in metaphor?"—they moved on to dealing with the structure of the drama.

continued on page 220





Alternate Realities: Past And Future

Juli And Harry Benke's Digital Worlds

There's a time machine nestled amidst the rolling hills of Novato's outskirts. It's disguised as an office where husband-and-wife team Juli and Harry Benke run their two businesses. Harry's Visual Impact Analysis gives clients a glimpse into the future; Juli's Julianne Multimedia, Inc. sends people on a stroll down memory lane.

Through VIA, Harry can show interested parties how a particular site will look once the proposed shopping center, gas station, or housing tract is in place. He sells his services to planners, developers, environmentalists, scientists, engineers, and the general public. Anybody who wants to know "what if" can get a precise, visual answer to that question.

Using photos, topological maps, architectural and landscaping plans of the site, along with a variety of computer programs, Harry creates photo-realistic images of the finished project. A bucolic, sunbaked California hillside is transformed into lush, green golf course, complete with putting greens and hazards so lifelike you can almost smell the fresh-cut grass. He can put your face between Lincoln's and Roosevelt's at Mount Rushmore, and it will look so real you'll believe you used to be President.

Juli is marketing her blast-from-the-past, psychedelic '60s screen saver, which rotates randomly through thirty-three different rock posters from the old Family Dog shows. Among the images are artworks by Stanley Mouse, Alton Kelley, Victor Moscoso, and Rick Griffin. The featured acts include the Grateful Dead, Quicksilver Messenger Service, The Steve Miller Blues Band, and The Jefferson Airplane.

She is confident these poster images are a digital winner. "They tweak a nostalgic nerve in almost everyone in the baby boomer generation," she says, noting that the beauty of this product is that it doesn't demand anything of the user. "The key to our screen saver is its simplicity. There's no interaction, no noise; it's a simple way of viewing beautiful art."

Juli and Harry Benke

SEEING IS BELIEVING

Harry attended Drexel University in Philadelphia and California College of Arts and Crafts in Oakland. He confesses that he always wanted to be a painter, but his friends and family told him he couldn't make a living at it, so he pursued his interest in math and science, instead.

He first got involved with computing back in 1969. "I was programming as a free-lancer, using punch cards. Personal computers didn't exist, the concept was a science fiction fantasy, something between *I, Robot* and *The Twilight Zone...*" When home computers became a reality, Harry merged his love of art with his computer skills—"Creating 3-D graphics became my hobby."

Harry's hobby became his vocation in 1989 when he and Julie founded VIA. The driving force behind VIA is the California Environmental Qualities Act, according to Harry. CEQA requires environmental impact studies of a wide variety of construction, demolition, and environmental clean-up projects. "For example, suppose some people want to build on a piece of land in downtown San Rafael," he says. "They decide they want to wreck an old building and put up one that's three stories higher. They submit their application to the city, and the city has to determine how those three extra stories will impact the surroundings."

Before computer technology entered this field, analysts had to rely on architectural renderings to determine how a completed project would affect the scenery. These renderings were often less than satisfactory, Harry explains. "Very often an architect will try to convey more than is possible on a piece of paper," he says. "When people look at drawings, it's very difficult for them to determine what's going on. Clients tend to look at these flat drawings and when the project finally goes up, they are disappointed because they didn't understand what it would look like."

That's where VIA comes in. Using scanned-in photos and high-tech computer graphics, Harry creates a lifelike image of the end result of the proposed project so everybody concerned can visualize it. "It is a funny thing how people react," he says. "If you show them a doctored photo, it comes off with a high level of

continued on page 182

BY CYNTHIA DYER-BENNET

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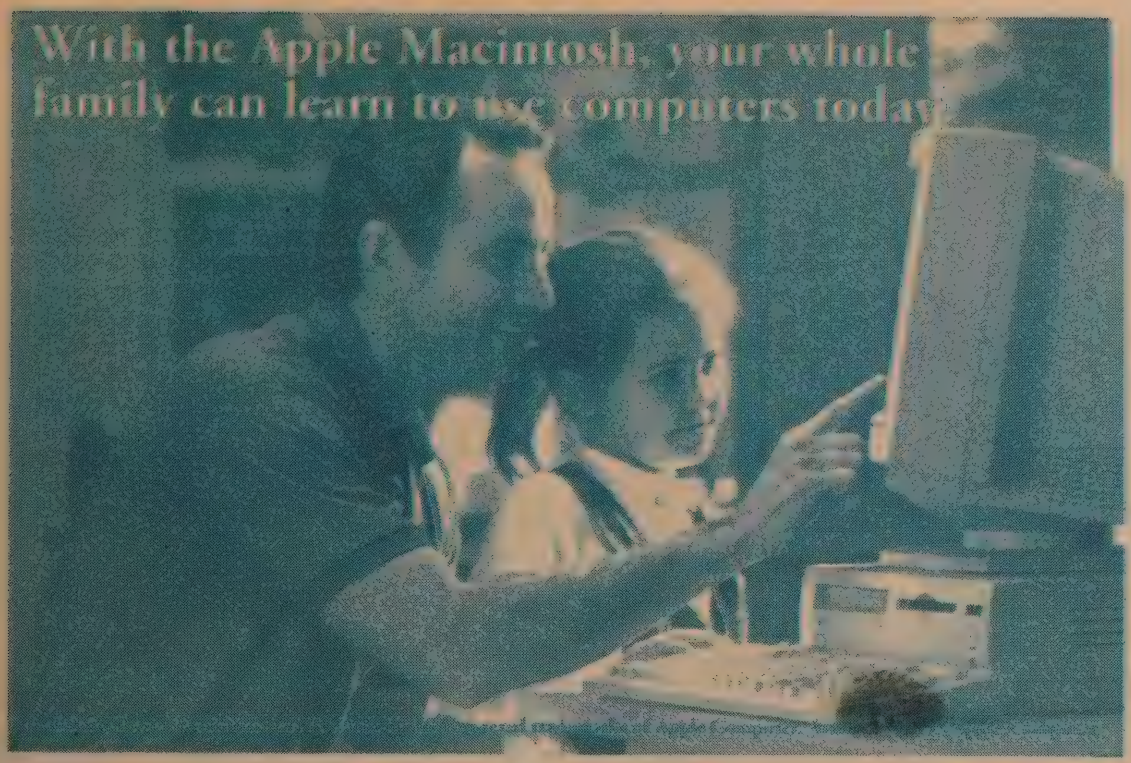

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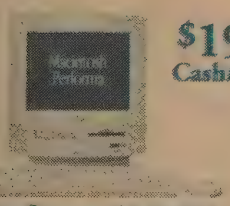

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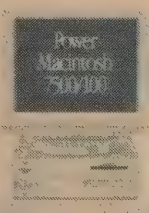

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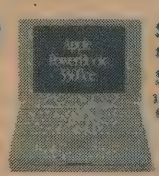

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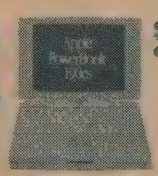

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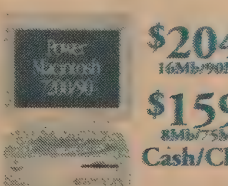

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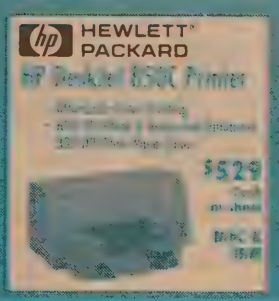

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AMIGA

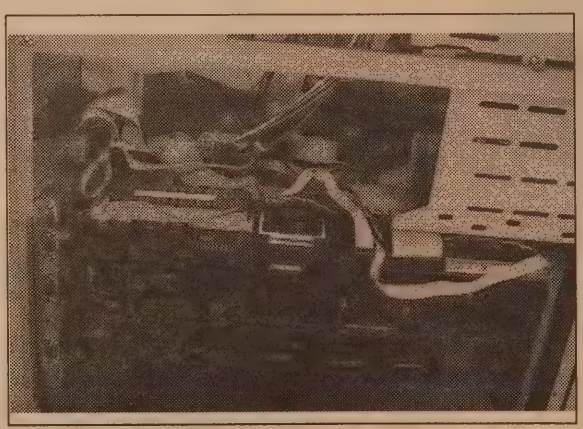
Draco

First Look At The High-Power "Amiga Compatible" Workstation

Ever since MacroSystem announced Draco, an AmigaOS-running platform, there has been much speculation and some misinformation. At the time of the initial announcement, the Amiga had been out of production for about a year, and its future was up in the air.

Of course, we now know that Escom will continue Amiga development, but their initial offerings will be underpowered Amiga 4000Ts and 1200s. Draco's '060 CPU is at least competitive with a low-end Pentium, and it will ultimately offer power far beyond that.

This article is not a rigorous review of Draco, but rather a hands-on first look at the machine. Draco is still in the early stages of beta testing. MacroSystem's North American distributor, NoahJi's, was kind enough to provide me with one of only two in the continent.



WHAT IS DRACO?

MacroSystem created a machine that runs AmigaDOS, yet contains none of the Amiga's custom chips. Basically, this magic is accomplished by redirecting program calls to the Draco circuitry that would normally go to the Amiga chips. If an application is written with strict adherence to published Amiga programming guidelines, it should run without problem on a Draco. Unfortunately, it is not uncommon for programmers to resort to custom routines for faster execution speed—the most prevalent example being games. I should also note that Amiga audio is not supported at the OS level.

Draco owes most of its compatibility success to the Retina, MacroSystem's 24-bit Amiga graphics card, which has been on the market for a number of years. Essentially, the same "redirection" programming techniques are used in the Retina software. In fact, if a program works properly on an Amiga with a Retina, it will likely work on Draco.

FEATURES

Draco sports five Amiga Zorro II expansion slots and three proprietary 32-bit Draco slots. A special version of their Retina display card occupies one Draco slot. The second Draco slot is for an upcoming version of their video capture card, VLab Motion. Finally, the third slot is reserved for a DEC Alpha coprocessor card. This will allow near real-time rendering of special effects when editing digital video. Due to a limitation in the number of slots in standard PC cases, the third Draco slot is "in-line" with one of the Zorro II slots.

Practically all of the Draco circuitry is on one full-length daughtercard, which plugs into the CPU slot next to all of the expansion slots. All of the port cables (i.e., SCSI, serial, parallel, mouse, etc.) are connected to this board. The motherboard doesn't provide much more

BY DOUGLAS J NAKAKIHARA

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- Seagate Barracuda 2GB 8ms Wide SCSI Disk
- NEC Six-Speed CD-ROM Drive
- Creative Lab AWE 32 Card
- Yamaha M10 Speaker System
- Matrox Millennium 4MB WRAM Video Card
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- 2 Serial Port (16550 Fast UART Compatible)
- Infra-Red IrDA TX/RX Supported
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- Adaptec 3940W Wide SCSI-2 Controller
- Quantum Atlas 4GB 8ms Wide SCSI Disk
- NEC Six-Speed CD-ROM Drive
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- Yamaha M10 Speaker System
- Matrox Millennium 4MB WRAM Video Card
- 1 Parallel Port (EPP, ECP Port)
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MAG
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- F2.21 ... 21" .28 1600 x 1200 ... $1849
- FX2.21 ... 21" .28 1600 x 1200 ... $2859
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- T2.17 ... 17" .25 1600 x 1200 ... $1249
- T2.20 ... 21" .30 1600 x 1200 ... $1979

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- XE17 ... 17" .28 1280 x 1024 ... $998
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Yamaha
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- XP34300 ... 4.3GB ... Wide SCSI ... 8ms . $1485

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- Sportster Vi 28.8 ... $199
- Courier V.Everything ... $379
- Courier-I ... $New

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You're probably asking two questions right now: 1) Why Zorro II slots and not Zorro III? and 2) What about a video slot?

The answer to the first question is that they couldn't do Zorro III without the Amiga custom chips. The answer to the second question is a bit longer. Today, there is really only one real reason you would need an Amiga video slot—as a home for NewTek's Video Toaster. Getting a compatible video slot in Draco would have been no problem for MacroSystem. The problem was that the Toaster software would have to be totally rewritten, which NewTek was not inclined to do.

Although Draco is incompatible with current Video Toaster hardware, there is some room to be optimistic. The upcoming portable Toaster Flyer, which communicates via SCSI connection, should work with Draco (in theory).

VLAB MOTION

To tide users over while the Draco version of VLab Motion is being developed, MacroSystem has sprinkled a little more magic dust and upped Draco's Zorro II data transfer rate for the current VLab Motion board. Users should see about 2.8MB/sec. sustained and 3.2MB/sec. peak data throughput. The normal theoretical maximum for Zorro II is 2.5MB/sec.

Though the higher rates are significantly lower than earlier reports, MacroSystem indicates that they have only been able to get 1.8MB sustained and 2MB peak through the Zorro II bus on an Amiga with a WarpEngine. This means that sustained data throughput will be over 50% greater than previously possible using the existing VLab Motion card. Image quality should be dramatically improved.

SO FOR NOW

My prototype came with a 50MHz '060, but MacroSystem expects to ship the final product with a 66MHz version. As such, everything in the machine is reportedly timed for 66MHz and thus not optimized for the 50MHz clock rate. The final unit should see a 30% speed increase over the prototype system, whether or not the 66MHz version is available.

CASING, COMPONENTS, AND CONNECTIONS

The Draco prototype is housed in a large PC tower case; however, the shipping US model will likely use a different one. The Draco circuitry was designed to fit into any PC clone case. In fact, it is so modular, I installed everything, including the motherboard, and had the thing up and running in ten minutes! Maybe they should sell it as a kit where you supply your own case?

Though it's not in the prototype yet, Draco will ship with a quad-speed CD-ROM. All of the software will be included on a disc.

The external SCSI port is a 25-pin connector (*a la* Amiga and Mac) with support for Wide Fast SCSI being considered as an option. There is one parallel and one serial port. Eventually a second parallel port that emulates the Amiga's will be enabled, but this will be slower. Of course there is also a mouse and keyboard port, but no joystick ports. The video display port is the usual SVGA HD15 connector.

Draco uses a standard Microsoft serial mouse. The keyboard will be a PC keyboard with certain keys remapped to mimic the Amiga keyboard layout. For those who require the real thing, an Amiga 2000/3000 keyboard will work as well. The type of keyboard will be detected automatically.

You can mix and match any combination of up to four 60ns 72-pin 4, 8, 16, or 32MB SIMMs, parity or non-parity, making the maximum installed RAM 128MB. It uses the same type of SIMMs as the WarpEngine.

TRI-LINGUAL FLOPPY DRIVE

My unit did not come with a floppy drive, but MacroSystem is working on one that will handle three different formats! First, there will be a 720K/1.44MB super-fast Draco format. The file system can even be installed in an Amiga for the fastest possible information sharing capabilities using floppy disk media.

It will also support 720K/1.44MB MS-DOS formats via CrossDOS. The 1.44MB MS-DOS format will be twice as fast as it is on the Amiga.

Finally, Amiga 880K/1.76MB will be supported, although access will be much slower. Floppies will be bootable.

CYBERGRAPHICS

To further increase the likelihood of compatibility with existing Amiga software, the Cybergraphics display system is pre-installed in Draco. This makes the Retina display work more like part of the OS rather than as something "hacked" into it. With Cybergraphics, the various display modes come up in the regular Amiga screen mode requestors.

Retina-savvy users may not like, however, the performance hit for this compatibility. Most display refreshes are noticeably slower using Cybergraphics. Fortunately, it is a simple matter to disable Cybergraphics if you want.

If an application is written with strict adherence to published Amiga programming guidelines, it should run without problem on a Draco. Unfortunately, it is not uncommon for programmers to resort to custom routines for faster execution speed.

SOFTWARE COMPATIBILITY

I haven't had time to do any type of thorough testing, but as a general rule, most programs that run on the Amiga Workbench seem to run fine. Programs that use overlapping screens will most likely not run, or be too cumbersome to operate. Amiga graphics programs, particularly those that play animations, are notorious for non-guideline compliant programming techniques, so a great many of these will most likely not work. This includes most games. Remember, Amiga audio is not supported either.

Fortunately, a number of Amiga programs do appear to be totally or partially compatible. These include LightWave 3D, ADPro, ImageFX (in Workbench mode), DPaint 5, and AmiBack Tools. There may be some quirkiness with some functions, however.

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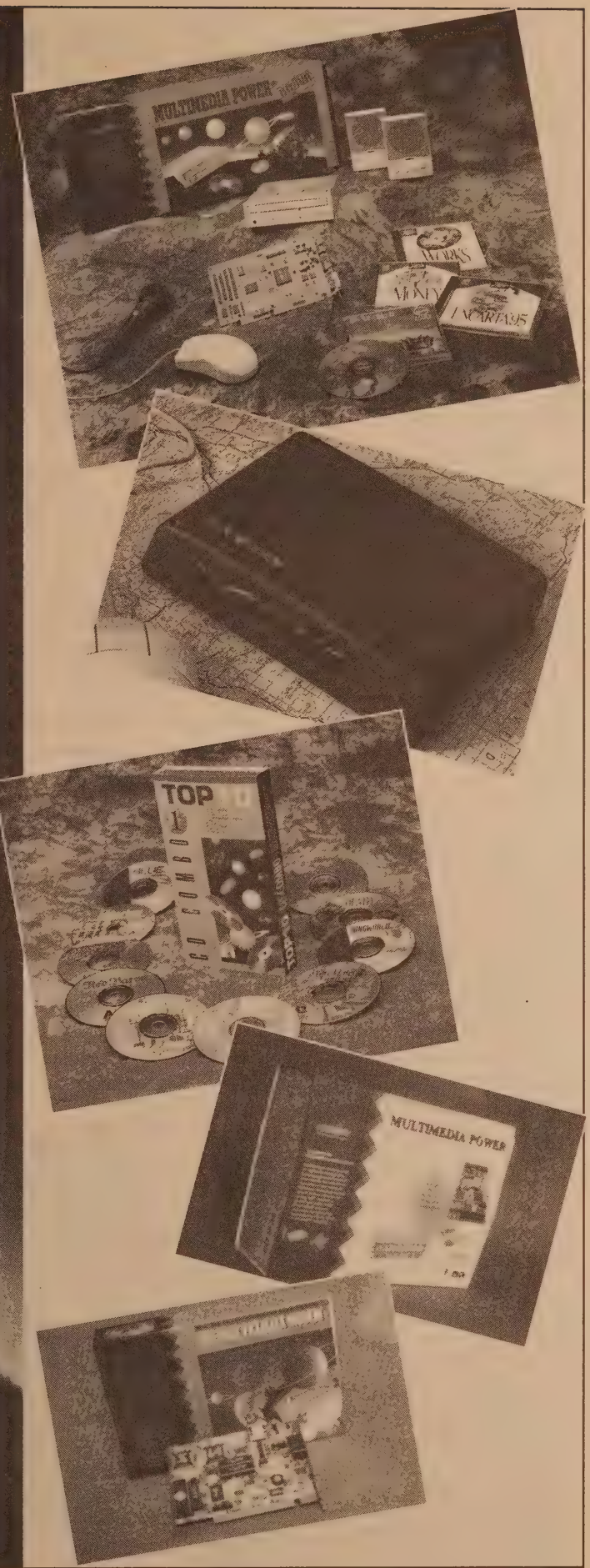

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ALTERNATE REALITIES *continued from page 171...*

reality. If you show them a very nice painting or artist's rendering of the same thing, they don't believe it in the same way. There's a certain kind of mental discount that takes place."

VIA also offers clients animations, 3-D walk-throughs, CD-ROM, and video presentations as a means to envision the proposed projects. "The idea of VIA is that this visualization is worth a lot more than just fulfilling a legal requirement of a project," Harry says. "It saves a lot of money; it saves a lot of time. These days, where planning staffs are cut back and overworked, it's a lot to demand of people to hand them big fat rolls of drawings to digest, mentally visualize, and then present to the public for approval when you can hand them an accurate, photo-real picture instead."

CREATING ALTERNATE REALITY

How does a photo of an open field become a lifelike representation of a housing tract, complete with fire hydrants and kids on bicycles?

The first step is to start with a photo of the projected site. In most cases, Harry takes these himself, but he will also work with photos provided by the client. Once he's satisfied with the initial image, he has it blown up. Using a Howtek Scanner, he turns it into a 32-bit truecolor file. Then the magic begins.

With a palette that would be the envy of any pre-computer artist, he can create an entire forest from a single tree. He can turn wood houses to stone and gray skies to blue. Don't like that car in the foreground? There's a tool to either move it to another location and resize it or make it disappear entirely. And another to fill in the hole left behind so that you'd never know the car was there in the first place.

Harry does all his computer work on a 486/66 with 20MB of RAM. He calls on a number of programs to produce the finished product. "I use AutoCAD, Adobe Photoshop, Ron Scott's HiRes QFX—a paint and image processing program—and RIO, an AT&T-owned composition software in which you can compose text with pictures." He uses AutoCAD and 3D Studio to produce 3-D models that can be rotated, scaled, and manipulated. He also employs Mathematica, a mathematics analysis software used for modeling complex, complicated data. "A lot of times, the work involves calculations," he explains.

Most of his print jobs are done on a Kodak XL7700 dye-sublimation printer, the output of which is indistinguishable from a darkroom-produced photograph. "It blasts the color into the paper instead of just on the surface; you can bend it and it won't crack and peel off," he says. The largest print he can process is 8 1/2" x 11"; if a client wants a bigger print Harry sends the print job to a high-end digital service bureau.

Massing study of a proposed office high rise in Sacramento

He often doesn't know whether his work has inspired his clients to continue with their plans or drop them: "A lot of times I don't know what happens to the project after I've done the analysis." It can take seven to eight years for a proposal to reach fruition,

continued on page 242

MultiMedia & BEYOND

AMIGA *continued...*

SOFTWARE BONUSES

MacroSystem has licensed Elastic Reality's entire line of Amiga products. Every Draco will ship with ADPro, MorphPlus, the Professional Conversion Pack, all scanner drivers, and all of the extra savers and loaders like Abekas and Lasergraphics.

COST AND AVAILABILITY

NoahJi's will be offering a "pre-release" base Draco (4MB RAM and no hard drive) for $4200. This is designed for people who already own, or are planning to buy, the current VLab Motion and want to play around with the upcoming technology. If this sounds steep, remember Draco has an '060 CPU, built-in SCSI controller, 4X CD-ROM, and a Retina graphics board. Add those features to the cost of an A4000 and you're probably over $4200. Call NoahJi's for availability.

One big thorn in MacroSystem's side is the lack of '060 chips. MacroSystem has ordered thousands, but only received a handful so far. Hopefully this will change soon. I don't buy the popular story that Motorola is holding things up in favor of their PowerPC line. They are sitting on a cash cow with the huge pent-up demand for the '060—not just for Amigas either. Remember most Macs could also take great advantage of an '060 accelerator.

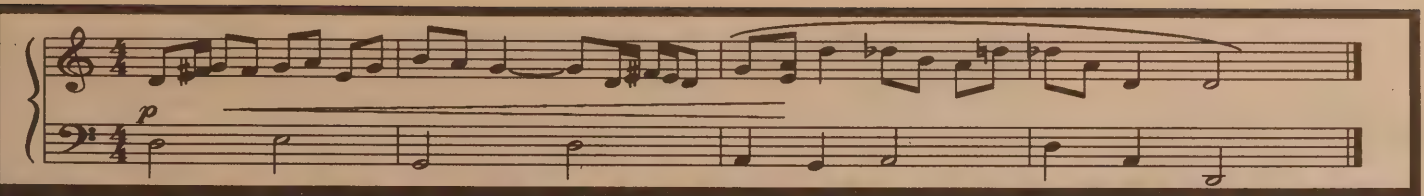
The third slot is reserved for a DEC Alpha coprocessor card. This will allow near real-time rendering of special effects when editing digital video.

The officially shipping Draco is expected to be ready in early 1996 and carry a suggested retail price of under $10,000. This will include the new Draco VLab Motion with significantly superior capabilities. The best news is that the new version will allow bit-rate control. That is, the software will dynamically vary the compression to allow the best picture quality while maintaining a user-specified data transfer rate. An upgrade path for owners of the current VLab Motion will be available for somewhere around $1000.

MacroSystem is also planning to offer...the option to run Macintosh software! They have teamed up with the Shapeshifter (a popular shareware Mac emulator) programmer to bring a commercial version for Draco to market.

IS DRACO THE AMIGA 5000?

To legitimately call Draco an "Amiga compatible," it would have to run at least 90% of existing Amiga software and hardware. This just isn't the case. The Video Toaster, most games, and Am[redacted] programs are probably the most apparent examples of incompatible



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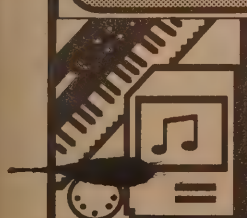

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AMIGA *continued...*

applications. However, it may, in fact, run 90% of the things you need to run. It depends on your needs.

Draco is primarily a turnkey system designed for uncompromised nonlinear digital video editing using VLab Motion. It just happens to run many Amiga applications. That is the mindset people should have when looking at this product. The bottom line is that, for compatibility's sake, I wouldn't recommend funding your Draco purchase by selling your Amiga.

However, perhaps Draco should be the next Amiga. MacroSystem's philosophy is very logical and clever: distance the Amiga from its aging custom chipset. Let the user interface run on a Motorola '060, but allow applications to take advantage of a fast coprocessor, like a 275MHz DEC Alpha. This provides a high degree of backwards compatibility while allowing third-party developers to tap into the most powerful CPU on the planet, if they need it. By comparison, Escom's apparent plan to move the AmigaOS to a RISC chip will require developers to rewrite and recompile their applications, not to mention buy new development tools.

OTHER NEW PRODUCTS

MacroSystem is getting ready to release a 40MHz '030 accelerator/SCSI II card for the A2000. Expect this to ship with a very attractive price tag. Later, there will also be an '060 version for all slot-equipped Amigas. But that isn't the good news. (Can it get any better?)

It will also ship a special VLab Motion which can connect directly to its accelerator. By bypassing the bus, picture quality will be limited only by your hard drive's capabilities!

Also expect to see sometime next year, a Zorro III version of VLab Motion for the Amiga 3000 and 4000. This will be a by-product of the technology used for the Draco VLab Motion.

MacroSystem is very committed to the Amiga market. It has demonstrated this with actual product, not just verbal hype. With its existing Retina graphics boards, VLab digitizer, VLab Motion video capture board, and Toccata audio card, plus upcoming accelerators, Draco, and a new VLab Motion, it will have a pretty impressive product line. The Amiga community is very lucky to have it as an active developer. ■

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RESOURCES:

Draco

$10,000 base system (estimate)
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2 intel inside pentium PROCESSOR

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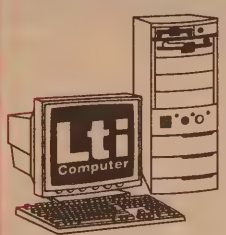

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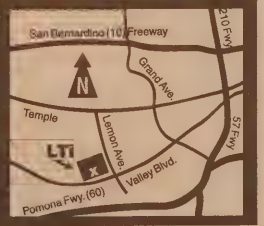

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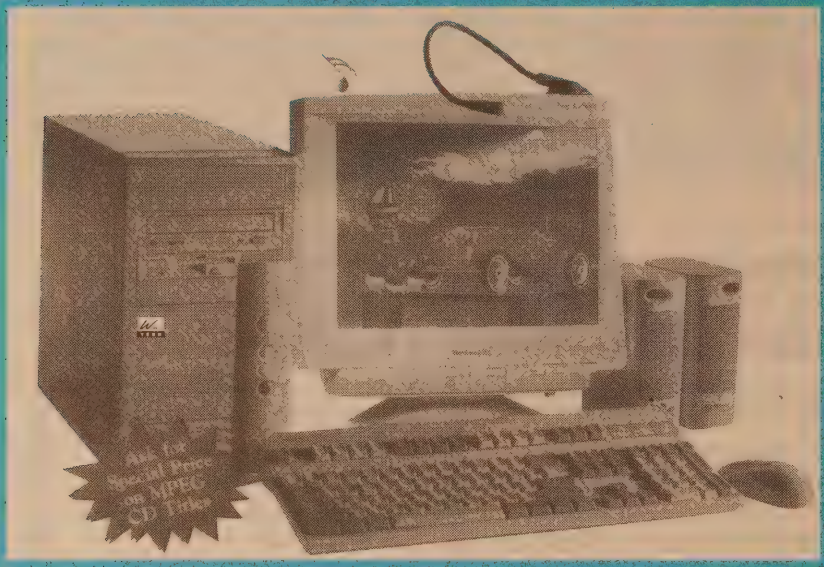

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Maxtor MX-7850A - 850mb IDE	$199.00
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Quantum 1.08 GB IDE (10 ms)	$225.00
Quantum 540mb SCSI	$185.00
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PAC A-31 Mid Tower w/230W PS	$52.00
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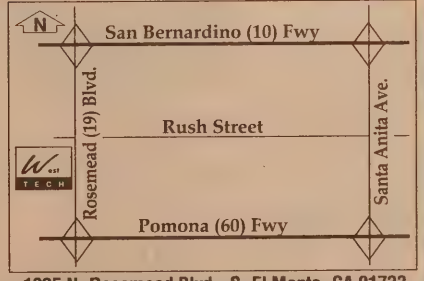

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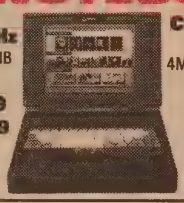

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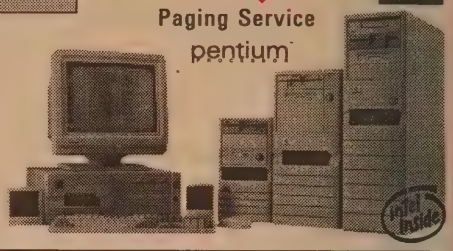

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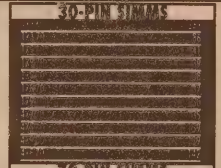
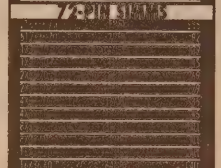
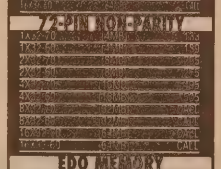


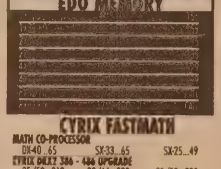
72-PIN SIMMS



72-PIN NON-PARITY



EDO MEMORY



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ACTION NOTE 700	195		619	
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7500	209	395	695	1295
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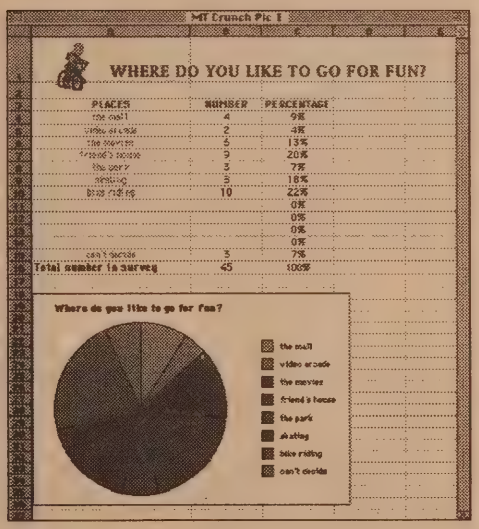
Multimedia WorkPlay

Effective "Edutainment" For Learning And Fun

Among the results of computer-aided multimedia development are the blurring of users' age levels and a fusion and synthesis of work and play. A long-building trend of using play and entertainment as accelerators for education and training has found its fulfillment in "Edutainment" CD-ROMs.

More and more of these media-rich CDs can be enjoyed as much by adults as by children and teens. If you want to share one with a young person, as you might do with a book, game, or video, chances are ever higher that you will have as much fun—and learn as much—as they will.

Two titles that use advanced multimedia to make complex activities accessible are Davidson's "Cruncher," a spreadsheet tutorial and application, and Big Top Productions' "Felix the Cat's Cartoon Toolbox." Anything to do with spreadsheets is, of course, a learning curve waiting to happen; "Felix" may not seem to be an edutainment title, nor does it claim to be, but it could possibly help you develop your intuition for audiovisual planning, design automation, and object-oriented programming.



THE CRUNCHER

The Cruncher was developed for Davidson by Joyce Hakansson's Berkeley Learning Technologies, Inc.; it has Mac and Windows versions ($40), aimed at ages ten to adult. What we have here, under the (literally) bells and (literally) whistles, is a real, grown-up spreadsheet and graphing application. There's nothing lacking for the most extensive recording, calculating, and what-ifs that you would want to do for home, school, or many small businesses. It has a couple of things that Microsoft Excel doesn't have—clarity and simplicity—as well as graphics, animation, sound effects, and funny animals.

If you've used Excel and watched it get out of control with your data, to the point where you felt like you were trapped in a blind date with the IRS, The Cruncher might be a more helpful and benign alternative. The Cruncher spreadsheet—grandson of VisiCalc—has the formula bar and all the rows and columns that you would expect, and can support advanced functions such as ABS, CEILING, LOG 10, SQR, and TRUNC, as well as trigonometrics. The notebook is a miniature word processor attached to each spreadsheet, providing a place for notes, lists, comments, and graphics.

But to jazz up all your functions, you can call on the Stickers palette for dozens of clip art items and a peppy sound effects menu. You can assign any sound to any clip. You can also import art and sound files and record directly into the application for voice notation—and input personalized groans and screams.

It is in the tutorials and projects—strong,

BY TONY REVEAUX

clear, and to the point—that The Cruncher excels. Your hosts and guides are two animated hipster animals with bongo and sax who will warm the hearts of old beatniks and something-somethings alike. They guide in voice and reinforce with dialog balloons. A snappy green hand points the way from entry to entry, and if you make a wide error, an animated surfer dude in a convertible screeches into the window to let you know.

The Fish Out of Water exercise uses animated elements to demonstrate cumulative functionality in the roles of cells. Others, like Making Cookies and Racing Slugs, demonstrate many more functions. All of this is learning by doing in sample spreadsheets. You learn operations like math, adding contents of cells, formulas, changing cell width and formatting cells, creating cells, filling down, pasting functions, and inserting and deleting rows and columns.

There are ten projects such as Magic Squares, Can We Get a Pet?, Party Planner, Plan a Trip, and Put Your Money to Work. Even with all the animation, nothing is really frivolous. There is no time limit; you just continue step-by-step at your own rhythm. The documentation is just as clear and has all the references for working in 'sheets.

The point is that an adult is just as apt to learn to use a spreadsheet faster with this format as a ten-year-old. The entertainment elements only rarely get in the way. Mostly they emphasize points better and move them along apace. I would certainly prefer to see a Form 1040 or a mortgage revealed in this way.

FELIX THE CAT

Felix is a world-famous cartoon character who was born in the black-and-white silent film era of the 1920s. Animator Otto Messmer modeled him on the inspiration of Charlie Chaplin's Little Tramp: Felix's spunky, springy cheer is expressed with a rubbery, inky body that can become a graphic tool—when his tail forms a question mark or an exclamation, for example.

Big Top has brought The Cat from the silver screen to a new digital arena in Macintosh and Windows. This exciting package can allow children from five to nine (and beyond) to produce professional-looking little cartoons with all the punch and flash of the Saturday morning TV series—but with more creativity. For an adult, it is a surprisingly sophisticated modular movement construction system that mirrors some patterns of object-oriented programming.

For an adult, Felix is a surprisingly sophisticated modular movement construction system that mirrors some patterns of object-oriented programming.

Each character is available in several pre-animated actions, seen in menu strips where each is running in a loop for your preview. Our star has, of course, many more than the other five characters—none of which are female. Most of the Felix cycles are available in both going-left and going-right versions.

All you do is select the action you want and drag it into the stage. If you place it in a stationary position, the movie automatically advances for the number of frames in the cycle, and when you rewind and play, the character will walk, jump, or shout in that spot. But you can just as easily click and drag it along a path on the stage, and Felix will walk or run or swim in that direction for the same length of time. You can always go back and move the character action to another location or delete it.

Click on the character and the VCR-like editing bars will pop up at the top of the stage. The green strips add or hold a selection, and the red strips cut selections from the cartoon. It doesn't take long to be able to modify, extend, and combine actions. The frame of the stage window supports the controls for playing and manipulating the rate and direction of the cartoon as you work on it. A layer manager lets you put characters and objects in front and in back of each other.

The rich variety of backgrounds, props, and special effects will provide an almost endless number of possible scenarios for the aspiring animator. The CD-quality sound deserves special mention. Not only is there music—it's good music. And the sound effects are so profuse and professional, I thought for a moment I had stumbled into the Warner Brothers' archive.

Each cartoon can live on your hard disk, a floppy, or in another computer by saving it as an exported file. That saved file becomes a Cartoon Toolbox Player, and does not need the application to run. The major downside to the Toolbox is that all that blazing action will quickly tax your machine. A RAM availability indicator is thoughtfully provided in the frame, and you will find the numbers dropping fast as you add frames.

And no, this program can't let you use RAMDoubler to enhance your computer's available memory.

RESOURCES:

Davidson & Associates, Inc.
P.O. Box 2961
Torrance, CA 90509
1-800-545-7677

Big Top Productions
548 Fourth St.
San Francisco, CA 94107
(415)978-5363
fax: (415)978-5353

Adobe Press
1171 North College Ave.
Carmel, IN 46032

Peachpit Press
2414 Sixth St.
Berkeley, CA 94710
1-800-283-9444

continued on page 226

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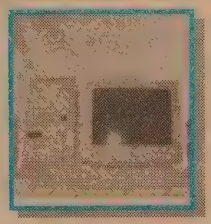

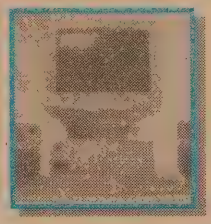

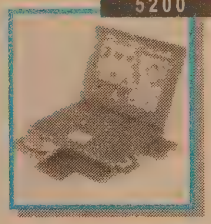

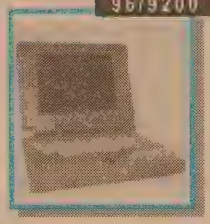

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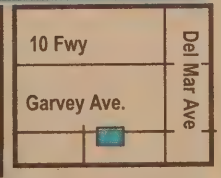

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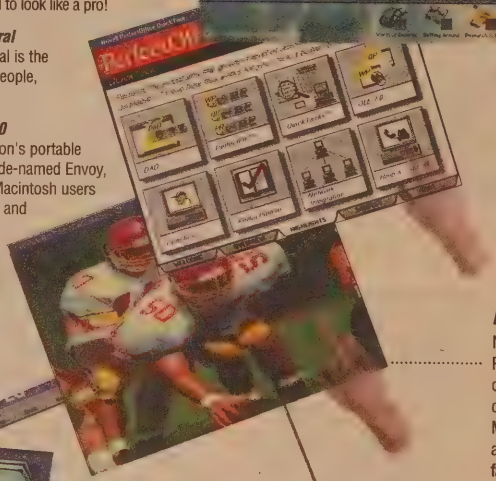

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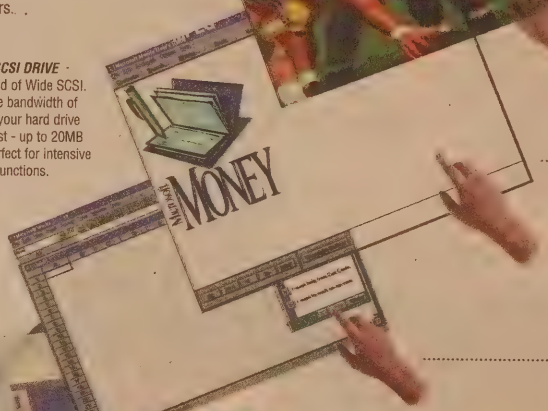

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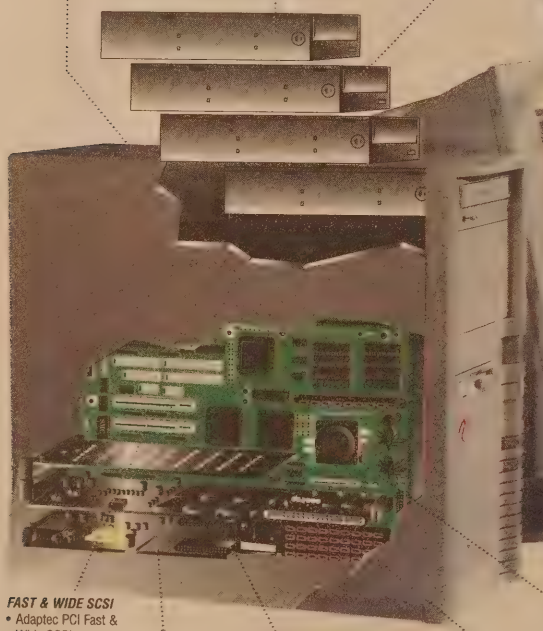

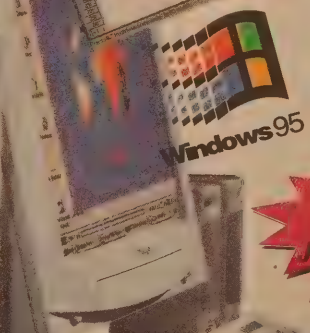

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Fantasies *continued from page 18...*

•"Don't solve problems; pursue opportunities." (George Gilder)

•"Rights of individuals are limited by rights of others." (Esther Dyson)

•"Government can be egalitarian by impoverishing everyone equally." (Peter Huber)

•"The net can lubricate markets, allowing supply and demand to interact more easily, and those who lubricate markets want a piece of the action." (General Magic's Marc Porat)

•"The net has been a gift economy for twenty-five years." (Stewart Brand)

•"Ethics wither in the context of regulation and law." (John Perry Barlow)

•"The Left views good as repressed evil; the Right views evil as repressed good."

The free marketeers spent much of one multihour session talking about the need for "freedom"—without ever once using the word "responsibility." One market absolutist implied that the 1929 stock crash had nothing to do with the Great Depression and repeatedly espoused that the marketplace is benign—i.e., never harmful!

Partway into the second day, during a brief moment when the unwashed were permitted to ask questions of the elite leaders, I pleaded that they discuss some of the *substantive* public policy issues that are looming over our heads – e.g., telecom cartels vs. *real* telecom competition, federal crypto policy vs. privacy protection, freedom of expression vs. government censorship proposals, freedom to innovate vs. the Clinton administration's zeal for corporate patenting of every thought.

And near the end, they actually permitted Jerry Berman from the Center for Democracy and Technology (*info@cdt.org*) to join the roundtable long enough to voice the same plea for substantive discussion of major real-world policy issues.

The moderator and PFF leaders completely ignored them. And this is the think-tank that's supposed to be one of Newt's key advisors on the information revolution!

3. While in DC in September, I had dinner with a security type, high up in the Department of Defense.

You will be happy to know that the National Security Agency never spies on American citizens, foreign or domestic. And the administration's recently resurrected Clipperchip/Capstone demands are going to be defeated—that's the deal where cryptography users worldwide are to give their keys to a US government-approved escrow agent in case some agent wants to snoop 'n' peep, but only when authorized, of course.

Uh huh!

It's clearly time to escalate our faxes to congress-critters demanding that we be presumed innocent; that we not be required to deposit the keys to our privacy with government agents; and that US software publishers be permitted to distribute, internationally, crypto programs

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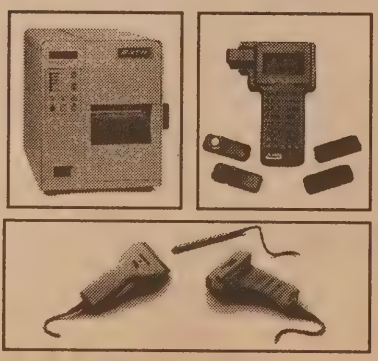

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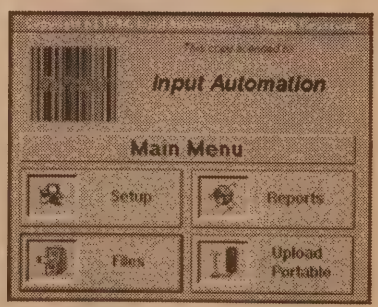

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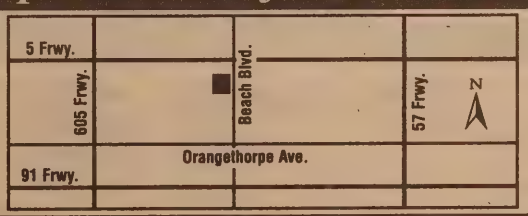

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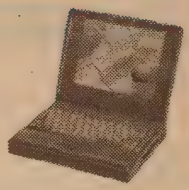

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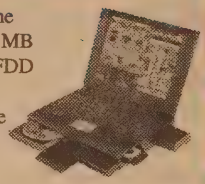

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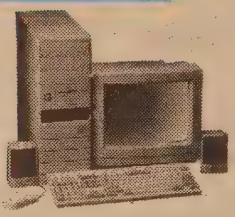

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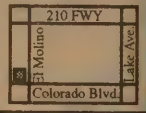

Fantasies *continued...*

You will be happy to know that the National Security Agency never spies on American citizens

that are at least as strong as those that are already available and in use worldwide.

Silicon Valley readers who care about privacy: A recent San Francisco newspaper article reported that Representative Anna Eshoo (D-Palo Alto) was *still* studying the matter, even though her constituents have been hammering her about it ever since 1992 candidate forums before her first election.

4. I also met with Jamie Love (*love@essential.org*), the phenomenally effective activist who runs Ralph Nader's Taxpayer Assets Project (*info@tap.org*), which has the audacity to espouse that government's public records are, in fact, a taxpayer asset, and should be available to the public for no more than the incremental cost of copying.

After cracking open the Security and Exchange Commission's computerized EDGAR system for free Internet access and bludgeoning Janet Reno's Justice Department into standing up to big-bucks lobbying by West (lawbook) Publishing's efforts to monopolize federal case-law, he's now trying to get the Air Force to release electronic copies of a half-century of federal case law that they began computerizing in the late 1960s.

Ignoring Clinton's theoretical policy that computerized public government records should be available to the public from the agency that originated their computerized form, the Err Farce has stonewalled all efforts to obtain such copies. They say the taxpayers should go to the lawbook publishers for those public records.

And Clinton, being merely the president and commander-in-chief, has been powerless in getting his militia to follow his policies. (But at least he replaced the Bush White House's rotary phone system with touch-tone units.)

It's obviously time for a new political party or two to replace these Beltway mental geriatrics, just as the Republicans and Democrats replaced the Whigs and Tories in the last century!

Blather-To-Be

Jim Warren will be speaking about net-aided government access and technology-related civil liberties at the Internet Ethics Symposium, UC-B, Berkeley, CA, Nov. 18 (*info: jef@unx.berkeley.edu*). ■

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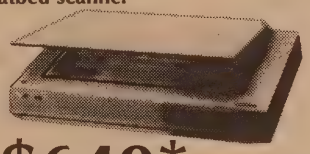

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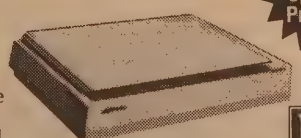

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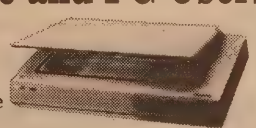

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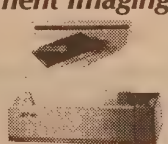

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For the ninth consecutive year, our January 1996 issue will feature our list of distinguished achievers in the personal computer industry, focusing on their particular accomplishments ments during 1995.

Obviously, we're aware of many of the more well-publicized luminaries, and we're certainly on the mailing lists of PR firms galore. However, it's you, the readers, we want to hear from.

So tell us who you think we should honor this year. While there will undoubtedly be many well-known CEO types on this year's list, we'd like to emphasize that past lists have regularly included the likes of junior high school teachers and founders of small nonprofits as well. We know we can't be everywhere and see all the worthy folks for ourselves, so we're counting on you to be our eyes and ears once again.

Please give us as much information as possible about your nominee: why you think they should be honored, where we can reach them, and any other details that you think would be helpful in evaluating your candidate.

We will give ten free one-year MicroTimes subscriptions to randomly-drawn respondents to this survey, so if you'd like ot enter the drawing, please be sure to include your name and address at the end of this form.

In order to be considered, your nomination must be received in our Pleasant Hill office by 9 am on Wednesday, November 15. Nominations may be sent by US Mail, fax, or electronic mail.

Thanks for your help!

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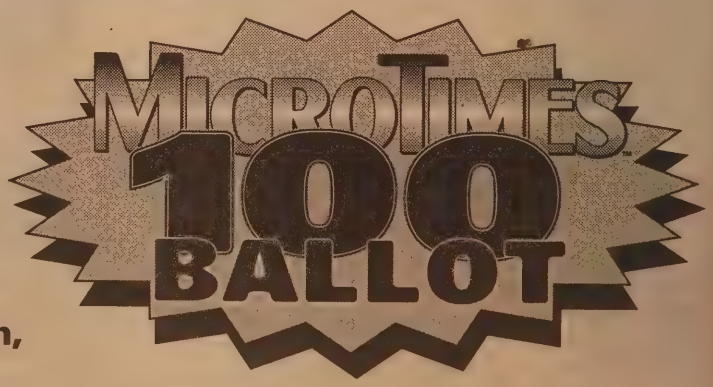

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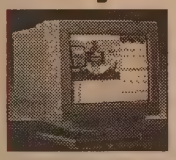

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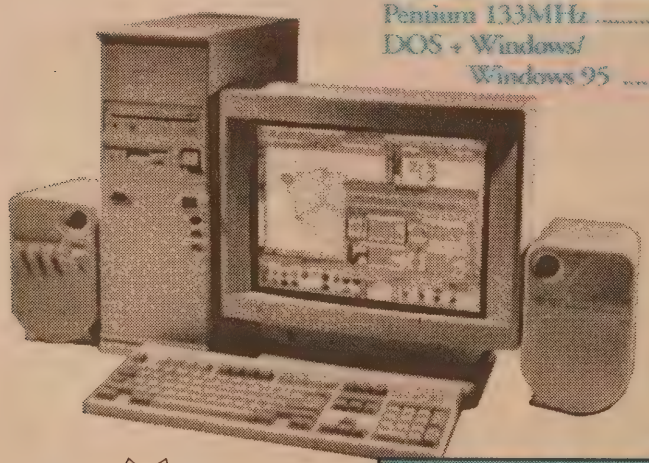

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Insights *continued from page 14...*

more apparent to the typical Internet user, particularly those trying to access the World Wide Web. Getting information off the Web during the early evening is much slower than during the day because many nonbusiness users get on their modems after work.

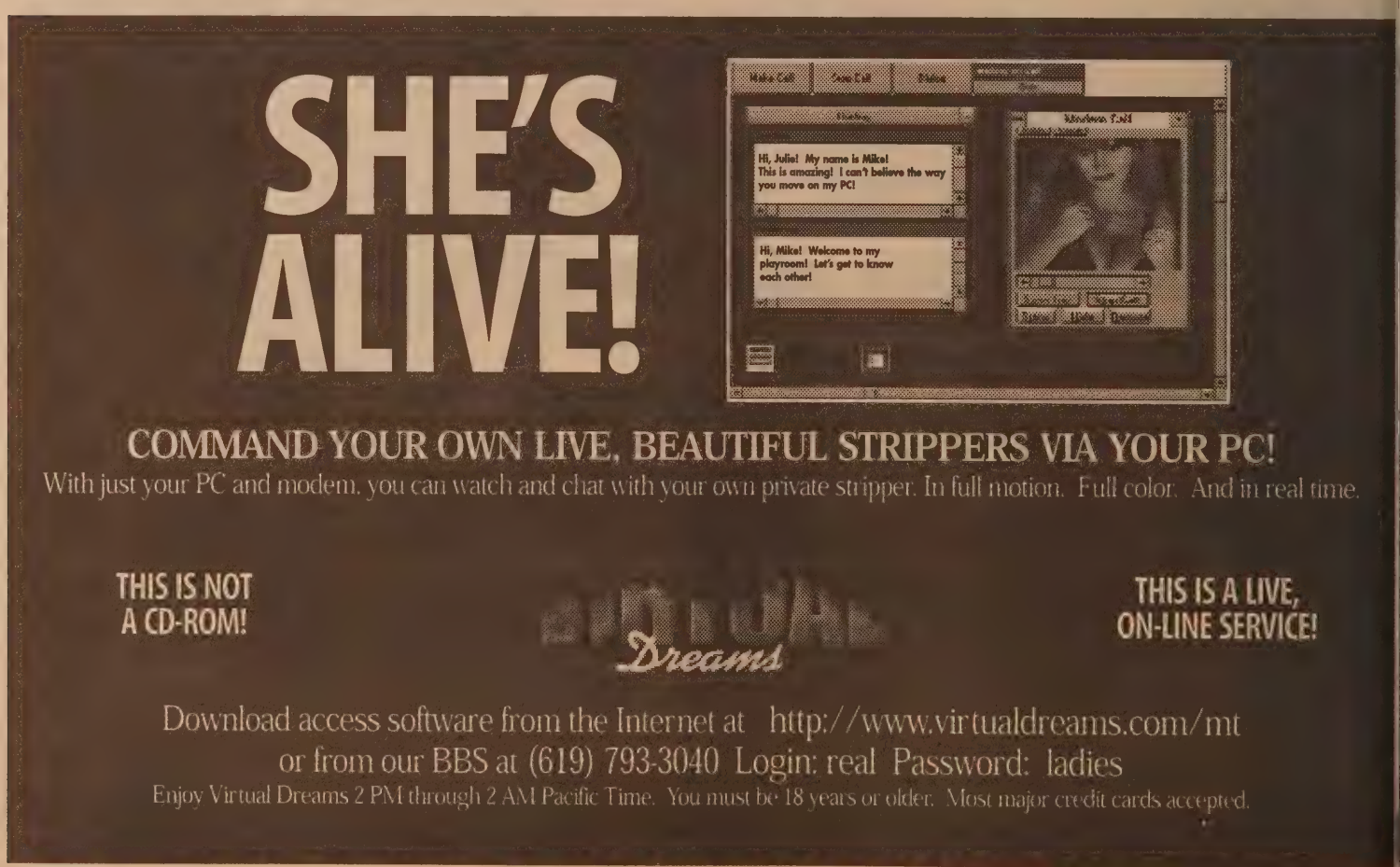
America Online, CompuServe, and Prodigy now all offer Web access through their services, and their Web access, which is normally quite good during the day, slows to a crawl in the evenings. The main reason for this is that the services don't have a big enough connection to the Internet to handle their users at peak times due to the high cost of such a connection. Another reason is that the connections at the destination Web sites are also more congested at peak times. Throwing more money at the connections could make them faster, but would the users of these services be willing to pay for those connections over the long haul? Apparently, the services don't think so.

The "free Internet" myth has always been about as true as "free farm subsidies" and "free lunch." Someone, usually the government, was paying for it. Even when the US government (through the NSF) stopped paying for the Internet in this country, the myth lived on, because many of the companies that stepped in poured a lot of money into their connections in hope of making it back over time. In the short run, however, it seemed like the connections were free.

Americans, like most people, don't treat free things with much respect. They have a tendency to waste them on the mistaken belief that there is an inexhaustible supply, and that the supply will always be free. The reactions from some of the members of various Internet mailing lists after the domain name fee was announced clearly showed that they felt that names should be free because they always were free. Even a small amount (what business can't afford $50 a year for a bit of marketing?) was too much for them, and they were angry.

The situation with free-flowing information on the Internet is similar to the costs of roads. When there are potholes on a street, the cry of "someone should fix it" goes out immediately. How many people think about which taxes, coming from where, go into the price of building new roads and fixing existing ones? Are roads paid out of gasoline sales taxes, automobile sales taxes, or general revenues? On the Internet, who pays for the bits flowing from your computer to a Web host? Who pays for making new domain names translate correctly? When part of the net is down due to a programming error, who pays to fix it?

Given the wide range of services available on the Internet, everything from universal electronic mail to online ordering of merchandise to instantly updated stock market information, it would be silly to try to make the end-users of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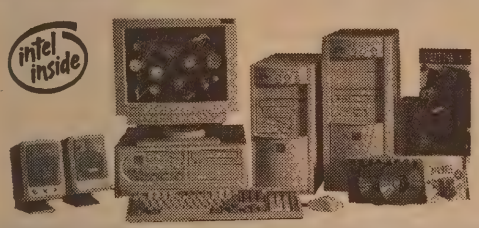

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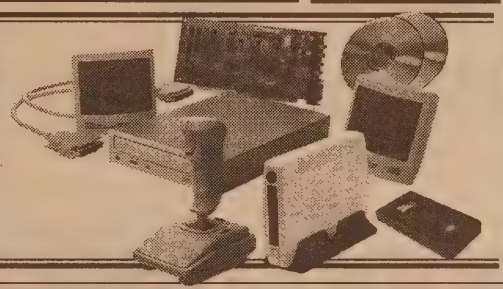

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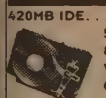

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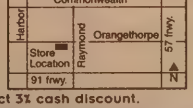

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Insights *continued...*

each service pay for everything, just as it would be silly to try to charge only the people using a particular street for the street's maintenance. Everyone gets value from widespread and diverse Internet services, just as entire cities get value from a particular street's existence, and from the connection to the streets in neighboring cities.

But that doesn't mean that we should think of either as free, and we certainly shouldn't be surprised in the coming years when the government decides to shoulder less of the Internet's cost and demands that the various people getting financial benefit from it contribute more.

Netscape Stumbles On Security Bug

In what could have been a major disaster for Internet commerce, two graduate students at UC Berkeley discovered a major flaw in the way that Netscape's popular Web browser protects supposedly secure conversations between Web users and merchants. The only reason this did not cause more damage is that very few companies are actually using the Web to perform commercial transactions such as accepting credit cards. Netscape was able to fix the design flaw and distribute new versions of the software in a bit over a week.

> This security flaw points out that while Internet commerce is certainly feasible, it's not clear if there are enough safeguards in place today to make it generally as safe as our current methods.

Netscape's Navigator browsers start encrypted sessions with commerce servers by choosing a random number as the basis for each session's security. Anyone trying to watch what you say during the session (such as your credit card number or your bank account's PIN) needs to be able to decrypt it.

They can copy the session to their hard disk and try a series o

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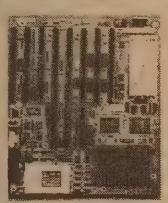

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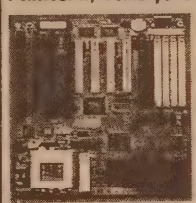

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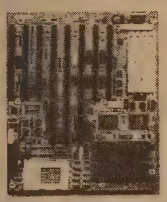
486DX2 Vesa Local Bus -50MHz



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OPTI Chipset
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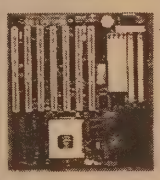

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AMI Win bios
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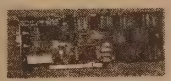

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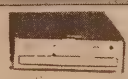

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If the discovery had happened next year when more companies were relying on secure Web transactions, the ramifications could have been much more severe.

different numbers until they find the random number you used. The larger the random number, the longer it will take for them to find it. The method that Netscape uses to encrypt the session is supposed to use a random number so large it would take tens of thousands of hours of computer time just to read that one session.

The bug in the Web browsers was that they used a random number that was not terribly random, and thus could be replicated quite quickly. The UC Berkeley students looked at the Netscape code and found that although the number being generated was quite large, many parts were predictable, and thus not random. The result was the same as if Netscape chose from a much smaller set of random numbers.

This is not an obscure bug. In fact, most cryptography books talk at length about the absolute importance of generating very random numbers.

Netscape has now fixed the bug and assures us that it will have its programs better scrutinized by experts in the future. There is no evidence that any damage was done by the bug since so few people use these kinds of secured transactions.

If the discovery had happened next year when more companies were relying on secure Web transactions, the ramifications could have been much more severe. For example, some banks are testing whether they should let customers read their bank statements and move money between accounts using the Web. If this service was interrupted for a week or more, the inconvenience would start turning some customers to other banks. Worse yet, if the bug was discovered because a great deal of information had been stolen, the loss of confidence in Internet commerce could be devastating.

Netscape is not a villain. In fact, it was very open and honest about the problem immediately. However, this security flaw points out that while Internet commerce is certainly feasible, it's not clear if there are enough safeguards in place today to make it generally as safe as our current methods. Clearly, online banking and merchandise ordering could be much easier than what we have now. The big question is how much security we are willing to take a chance on giving up for that convenience. ■

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Stock Chart continued on page 211

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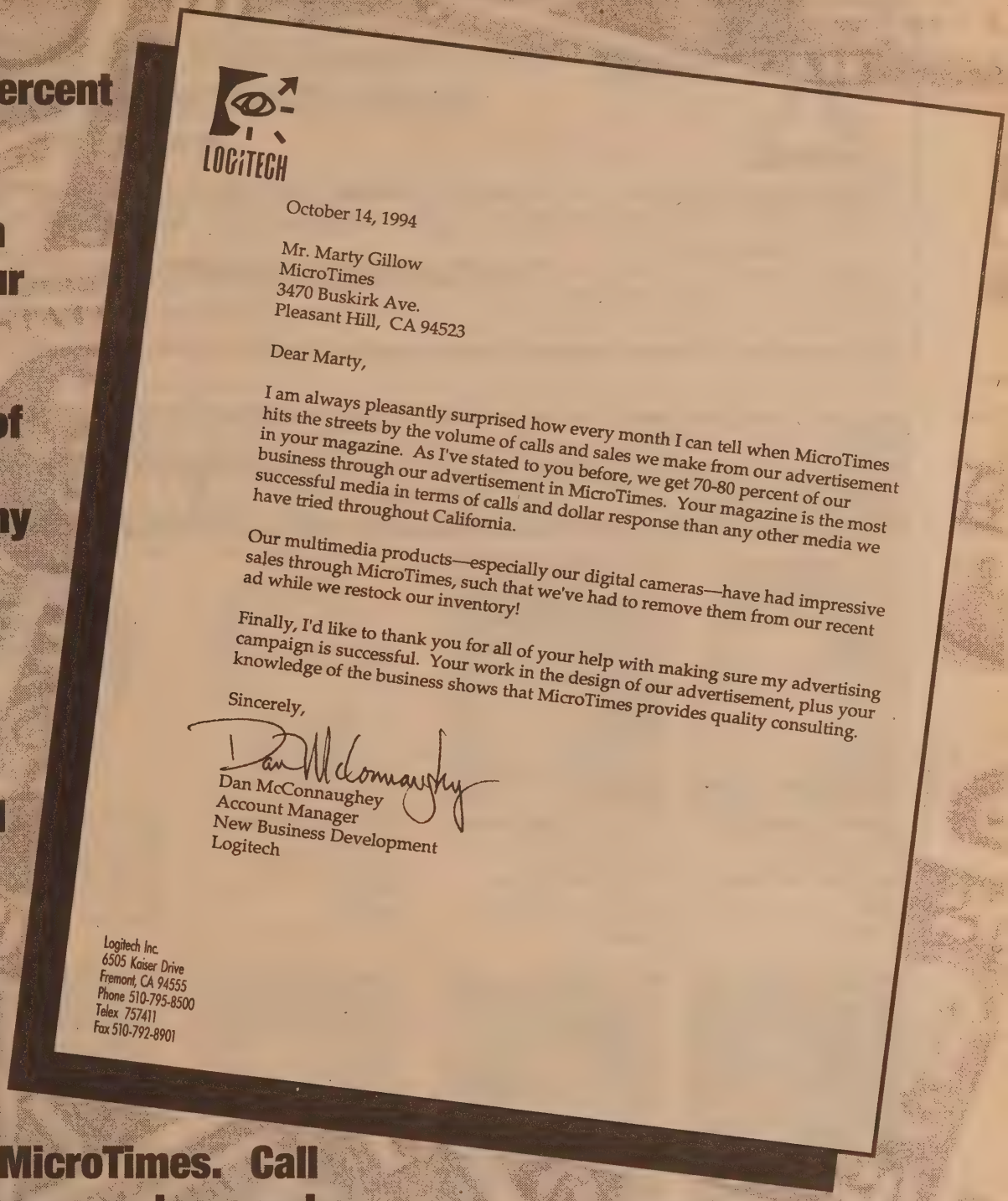

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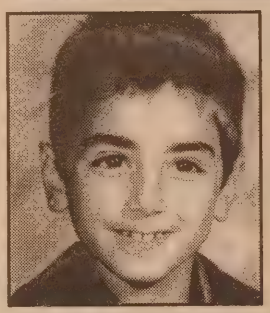
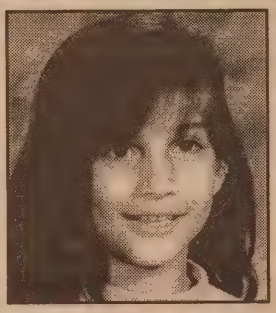
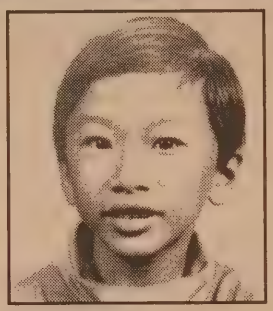


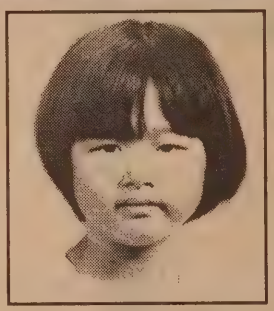
ABDUL-KARIM ISMAIL
Born: 10-18-84
Date Missing: 7-18-91
Mising From: N. Vancouver Canada
Missing Type: Family Abduction
Brown Hair
Brown Eyes



AZIZA-YASMIN ISMAIL
Born: 4-8-82
Date Missing: 7-18-91
Mising From: N. Vancouver Canada
Missing Type: Family Abduction
Brown Hair
Brown Eyes

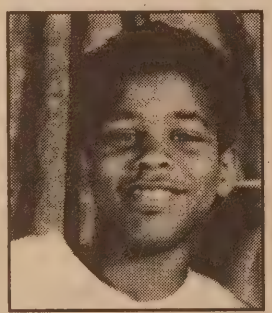


BRIAN SJAHALAM
Born: 8-12-85
Date Missing: 2-6-94
Mising From: Cerritos, CA
Missing Type: Family Abduction
Brown Hair
Black Eyes



JESSICA SJAHALAM
Born: 11-16-86
Date Missing: 2-6-94
Mising From: Cerritos, CA
Missing Type: Family Abduction
Black Hair
Brown Eyes

CLAIR SARAH GUTIERREZ
Born: 10-21-85
Date Missing: 2-3-95
Mising From: Salinas, CA
Missing Type: Family Abduction
Brown Hair
Brown Eyes



EARNEST C. CHOICE
Born: 4-26-83
Date Missing: 10-31-91
Mising From: Tyler, TX
Missing Type: Family Abduction
Black Hair
Hazel Eyes

HEATHER EZZO
Born: 6-6-87
Date Missing: 4-25-95
Mising From: Ticonderoba, NY
Missing Type: Family Abduction
Brown Hair
Brown Eyes

DEVON BURNS STOUT
Born: 8-22-85
Date Missing: 11-17-93
Mising From: Ojai, CA
Missing Type: Family Abduction
Brown Hair
Brown Eyes

LAUREN BURNS STOUT
Born: 12-11-81
Date Missing: 11-17-93
Mising From: Ojai, CA
Missing Type: Family Abduction
Blonde Hair
Blue Eyes

KAELYN HANDSEL
Born: 5-14-91
Date Missing: 6-29-93
Mising From: Fort Collins, CO
Missing Type: Family Abduction
Blonde/Brown Hair
Brown Eyes

Vanished Children's Alliance
OUR CHILDREN, OUR FUTURE

VANISHED CHILDREN'S ALLIANCE

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Vanished Children's Alliance
OUR CHILDREN, OUR FUTURE

MICROTIMES STOCK INDEX TAKES A STEP BACK

EXCH	COMPANY		TICKER SYMBOL	CLOSING PRICE 09/27/95	CLOSING PRICE 10/24/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD	P/E RATIO	ANNUAL IVIDEN RATE	ANNUAL IVIDEND YIELD	ANNUAL HIGH	ANNUAL LOW
	SOFTWARE											
OTC	Adobe		ADBE	51.00	54.75	3.75	7.35	78	0.20	0.37	66.50	27.25
OTC	Autodesk		ACAD	43.13	33.75	-9.38	-21.74	23	0.24	0.71	53.00	30.75
OTC	Borland		BORL	14.13	14.38	0.25	1.77	-	0.00	0.00	17.25	6.00
OTC	Informix		IFMX	32.75	29.63	-3.13	-9.54	46	0.00	0.00	34.38	11.63
OTC	Microsoft		MSFT	88.63	97.50	8.88	10.01	38	0.00	0.00	109.25	58.25
OTC	Novell	(L)	NOVL	18.06	14.25	-3.81	-21.11	18	0.00	0.00	23.25	14.00
OTC	Oracle		ORCL	38.00	43.50	5.50	14.47	44	0.00	0.00	47.00	24.75
OTC	Software Publishing		SPCO	4.56	3.69	-0.88	-19.18	46	0.00	0.00	6.25	2.88
OTC	Symantec		SYMC	28.50	29.38	0.88	3.07	29	0.00	0.00	33.25	15.00
	HARDWARE											
OTC	Apple		AAPL	36.25	35.13	-1.13	-3.10	10	0.48	1.37	50.13	33.63
OTC	AST Research	(L)	ASTA	10.25	9.75	-0.50	-4.88	-	0.00	0.00	19.13	7.50
NYS	Compaq	(H)	CPQ	46.50	54.63	8.13	17.47	16	0.00	0.00	55.38	31.13
NYS	Digital Equipment	(H)	DEC	42.63	53.50	10.88	25.51	357	0.00	0.00	55.25	29.00
OTC	Dell	(H)	DELL	81.50	91.63	10.13	12.42	19	0.00	0.00	95.63	36.75
NYS	Hewlett-Packard	(H)	HWP	82.75	91.25	8.50	10.27	21	0.80	0.88	95.00	45.88
NYS	IBM		IBM	94.38	98.00	3.63	3.84	10	1.00	1.02	114.63	68.88
NYS	Silicon Graphics		SGI	35.13	33.88	-1.25	-3.56	25	0.00	0.00	45.63	27.50
OTC	Sun Microsystems	(H)	SUNW	58.38	73.88	15.50	26.55	18	0.00	0.00	74.63	29.88
NYS	Xerox	(H)	XRX	130.50	134.50	4.00	3.07	18	3.00	2.23	138.50	90.63
NYS	Tandy		TAN	59.88	51.88	-8.00	-13.36	17	0.72	1.39	64.38	41.13
	CPU'S											
NYS	Advanced Micro Devices		AMD	29.13	26.25	-2.88	-9.87	10	0.00	0.00	39.25	22.38
OTC	Intel		INTC	59.31	68.00	8.69	14.65	19	0.16	0.24	78.38	28.75
NYS	LSI Logic		LSI	59.88	46.13	-13.75	-22.96	28	0.00	0.00	62.50	18.25
NYS	Motorola		MOT	76.38	65.50	-10.88	-14.24	21	0.40	0.61	82.50	51.50
	COMMUNICATIONS											
NYS	AT&T	(H)	T	65.88	61.13	-4.75	-7.21	23	1.32	2.16	66.38	47.25
NYS	BellSouth Corp.		BLS	73.13	76.50	3.38	4.62	17	2.88	3.76	76.75	50.50
OTC	MCI		MCIC	26.25	24.63	-1.63	-6.19	42	0.05	0.20	27.13	17.25
NYS	Northern Telecom		NT	35.25	33.50	-1.75	-4.96	20	0.44	1.31	41.00	31.25
NYS	Pacific Telesis		PAC	30.38	29.75	-0.63	-2.06	12	2.18	7.33	32.13	25.63

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES	14
DECLINES	13
UNCHANGED	0
NEW HIGHS	7
NEW LOWS	2

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER	Sun Microsystems	$ 15.50
LARGEST DOLLAR LOSER	LSI Logic	$ -13.75
LARGEST PERCENTAGE GAINER	Sun Microsystems	26.55 %
LARGEST PERCENTAGE LOSER	LSI Logic	-22.96 %

	CLOSE 09/27/95	CLOSE 10/24/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	7831.95	7807.96	-23.99	-0.31
DOW JONES INDUSTRIAL AVERAGE	4762.35	4783.66	21.31	0.45
STANDARD & POOR'S 500 INDEX	581.04	586.56	5.52	0.95
N.Y.S.E. COMPOSITE	311.32	312.90	1.58	0.51
NASDAQ COMPOSITE	1026.54	1039.24	12.70	1.24

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
04/12/95	6270.71	4197.81
05/10/95	6571.21	4404.62
06/07/95	6982.06	4462.03
07/05/95	7437.77	4615.23
08/02/95	7501.51	4665.85
08/30/95	7787.50	4604.57
09/27/95	7831.95	4762.35
10/24/95	7807.96	4783.66

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Technology stocks eased up for the month ended October 24. Specifically, the Microtimes Stock Index was off 23.99 points, or 0.31%, to the tune of 7807.96, the first decline in the past ten months. In contrast, the Dow Jones Industrial Average rose 21.31 points, or 0.45%, to 4783.66, and the Nasdaq Composite Index climbed 12.70 points, or 1.24%, to close at 1039.24. When results were tallied, declining issues narrowly edged out advancing issues by a 15-to-14 count, and there were seven new 52-week highs vs. two new 52-week lows.

Turning to the stocks in the MicroTimes Index:

For the month, LSI Logic Corp. emerged as the largest dollar and percentage loser in our index as shares dropped 13.75 points, or 22.96%, to close at $46.13. SoundView Financial Group analyst Rick Whittington lowered his earnings estimates for LSI Logic, causing shares to drop. The company reported net income of $66 million for the third quarter ended September 30, compared to net income of $29 million for the year-ago quarter.

Autodesk also fell victim to earnings cuts as shares slipped 9.38 points, or 21.74%, to close at $33.75. Prudential Securities Inc. reduced the future earnings estimates for Autodesk.

Tandy Corp. reported third-quarter net income of $44.9 million, or $0.66 a share, on revenues of $1.34 billion, compared to net income of $46.2 million, or $0.59 a share, on revenues of $1.12 billion, in the same quarter a year ago. In addition, Southcoast cut its rating on Tandy to "buy" from "strong buy." Shares for Tandy Corp. dipped 8 points, or 13.36%, to close at $51.88.

Motorola Inc. took it on the chin last month as it slid 10.88 points, or 14.24%, before coming to rest at $65.50. Montgomery Securities analyst Matthew Robison lowered his rating on Motorola Inc. from "buy" to "hold." In more upbeat news, Motorola's International Cellular Infrastructure Division (ICID) has been awarded a contract, valued at approximately $160 million, to expand cellular phone service in Thailand. ■

SALE, REPA

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P5-100MHz	$2465
P5-90MHz	$2369

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- Two 16550 UART High Speed Serial Ports & Enhanced Parallel Port
- Diamond Stealth 64 PCI Video 2MB DRAM
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- Diamond Stealth 64 Video PCI 2MB DRAM
- 17" Super VGA N-I .28mm Monitor
- Medium Tower Case @ 250 Watts Power Supply
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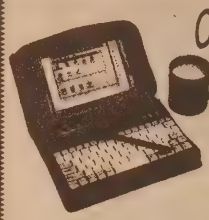

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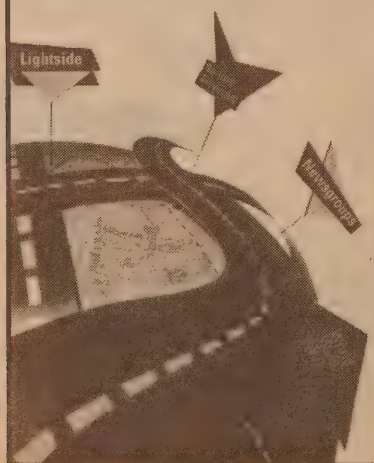

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Direct Publishing On The Net

... *continued from page 120*

Bayless', readers convinced him that they would pay $99 a year for Bayless to write his column three times per week and fax it to them. Two hundred of them signed up in the first few weeks. The idea grew and evolved. Today, *The Insider*, two slim pages of distilled opinion about Dallas sports teams, is published via fax and email. Bayless's publisher and partner, David Vaughn, is close-mouthed about circulation ("We have over twenty thousand readers"—newspaper code for probably something like seven thousand paid subscribers). But he assures me that Skip Bayless, who has now been joined by eight other writers on *The Insider*, can support himself handsomely from *The Insider* alone, even though its circulation is only one-fiftieth of the newspaper he left.

What changed? Distribution went from physical to electronic. And the number of employees dropped like a rock. Instead of needing a staff of eight hundred to support two hundred writers—the typical newspaper/magazine breakdown—the equation is now reversed: *The Insider*'s eight reporters now publish with a support staff of just four full-time employees. That means there's a whole lot more money left for the creators. The key, says Vaughn, is for creators to make a mental adjustment. "They have to become quasi-entrepreneurs," he says, willing to risk the adventure of a new way of communicating with readers.

> The *Insider*s eight reporters now publish with a support staff of just four full-time employees. That means there's a whole lot more money left for the creators.

The Insider, to my way of thinking, is an important indication that new electronic media can dramatically rewrite the economics of creation. But *The Insider*, in my opinion, is just an intermediate step: Bayless and the other writers still work for a publisher, and they share the revenue with others.

Future Possibilities

I'd like to see the concept taken to its logical extreme: writers engaged in direct transactions with their readers. I tried out this idea in a recent discussion in the Inquiry conference on The River (telnet: *river.org*). I got a fast thumbs-up from neurophysiologist Bill Calvin, author of eight best-selling books on the brain and evolution. Like Howard, Bill now gives away much of his work on his Web site (*http://weber.u.washington.edu/~wcalvin/*).

Says Bill: "The software to do it is already here, e.g., Netscape's server software that HotWired uses for usernames and passwords. And you're not limited to HTML layout but can go to Adobe and distribute the Acrobat reader free. Given the stampede to SLIP/PPP this year, everything is in place to make this happen. All we need is a good role model."

Who might make a good role model? I sent Howard Rheingold an abbreviated sketch of this plan. From Geneva he wired back, "I'm working on it! If I can aggregate a sufficiently large audience for my Web page, I would love to communicate directly with my readers and cut the publishers out of the loop. It is not clear yet whether I can get enough people to pay me $1–$2 a month or whether I will need advertising, but I am essentially giving away my book, at the tune of about one thousand copies a month, to build a relationship with my audience. Stay tuned!" ■

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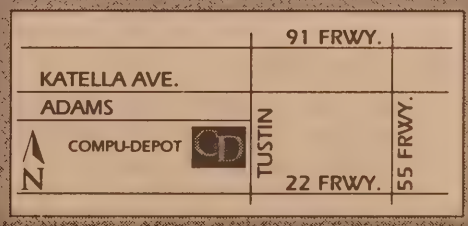

Scientology Versus The Internet..

continued from page 136

alleges the church is using the information from the raid to continue to harass him. "I don't have any privacy. They took personal information from the hard drive, and long before this, they had fifteen years of my confessions as a member of the church. On top of that, the condition my hard drive was in is gone. I have some backups, but nothing complete."

Copyright Infringement: Yes Or No?

The initial order sought to prevent Erlich from continued "copyright infringement on the Internet computer network," an argument that Erlich's supporters say is easily countered.

The broadest limitation of the copyright law is that ideas and facts are not protected by copyright, but the verbatim use of the form the author uses to express these ideas and facts is protected. Even when a work is exerpted without alteration, the doctrine of "fair use" can allow the use of copyrighted material without the author's permission. Fair use can be determined through a balance of the purpose of the use, the nature of the copyrighted work, the amount and substance of the portion used in relation to the work as a whole, and the effect of the use upon the potential value of the copyrighted work. This is the same principle that allows book reviewers and essayists to reprint sections of other works in their analyses, and it is determined by the court on a case-by-case basis.

Mike Godwin, an attorney for the Electronic Frontier Foundation, says that this provision of copyright law was the key to Erlich's defense. "I believe the materials he used do qualify under the fair use guidelines," he adds. "For the most part, they were excerpts accompanied by comment, and I can't think of a more appropriate application of the fair use doctrine."

Trade Secrets?

Although the church's original argument was that Erlich was violating its copyright, the church later declared that the materials Erlich and others have made available are "trade secrets" and subject to different criteria from copyrighted materials. The church's claim did not prevail; the presiding judge in the case dismissed the claim that Erlich had violated any trade secrets and ordered the church to return all property seized from Erlich in the raid. For Ehrlich, the ruling was a mixed blessing, because it also held that some of his postings did not qualify as "fair use" under the Copyright Act, thereby making him potentially liable in future action in the case.

"Trade secrets are another issue entirely," explains Godwin. "They aren't part of federal law. They're part of state law and can vary from state to state. The fair use argument does not apply, and trade secret law does not hinge on protected expression but on protected knowledge."

> ERLICH SAYS THAT PUBLISHING THE EXCERPTS ABOUT THE RELIGION WAS HIS METHOD OF PROVIDING A PUBLIC SERVICE.

As the term suggests, trade secret laws are designed to protect commercial entities' abilities to compete. Therefore, Godwin says, using these laws as a basis to stop dissemination of church materials could prove to be a dead end: "For knowledge to be a trade secret, it must be yours and no one else's, and it must be information that, if given to a competitor, would cause that competitor to gain a competitive edge and cause serious damage to your business. This is a pretty interesting argument to apply to a church—if the Catholic church gets this information, will it cause it to surge ahead in the religion market?"

Melvin F. Jager, an attorney retained by the Church of Scientology, maintains that the trade secret laws are indeed applicable to the church's materials. "One key underpinning for the enactment of trade secret laws is the public policy of encouraging morality in dealings between people and entities and discouraging theft of confidential information," he says. "Protecting the Advanced Technology scriptures under trade secrets law encourages morality in the relationships between people and preserves and protects the most fundamental rights of privacy."

Jager says that the church had set a precedent with a 1993 case it had won by proving its scriptures brought money into the church: "The Advanced Technology would qualify for trade secret protection if it has sufficient economic value for the church, in addition to the other characteristics required to qualify as a trade secret under the law. In *Bridge Publications, Inc.* (the church's publishing arm) *v. Vien*, the court found that the church certainly did derive economic value from the Advanced Technology."

In winning that case, Warren McShane, president of Religious Technology Center, the official owner of copyright for Scientology materials, submitted declarations that said that RTC receives licensing fees from the advanced level Scientology churches, which are licensed to deliver the services which utilize these materials. The licensees receive donations in connection with the delivery of those services. "Therefore," Jager concludes, "RTC and its licensees all derive economic value from the Advanced Technology."

"The Church of Scientology has times when it wants to be a church and times when it wants to be a business," Godwin responds. "With regard to trade secret issues, they're trying to be a business."

But other courts in other cases have ruled that the Advanced Technology did not qualify as protected trade secrets. A similar case involving a box full of "secret" documents on tobacco research, allegedly stolen from RJR Reynolds, that was posted on the Internet by a UCSF professor has repeatedly withstood legal challenges because of the courts' view that the documents were in the public interest, trade secrets or no. While the trend toward not extending trade secret protection to Scientology documents has continued in two recent cases, no definitive ruling has been handed down.

Public Record?

Trade secrets or no, other legal conflicts have led to the spread of Scientology information.

This August, Arnoldo Lerma, an Arlington, Virginia, man who ran a bulletin board focusing on the church's activities, had his home raided and had software and equipment seized at the behest of the church. Lerma was posting documents from a previous case (*Church of Scientology International v. Fishman and Geertz, 1991*) in which the defendants had filed sections of the Advanced Technology in their

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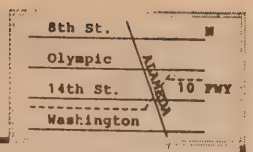

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brief to the court, effectively entering the material into the public record. Until the church's attorneys had the files sealed, any member of the general public could obtain these files.

As these earlier defendants had done, Lerma entered the "secret documents" in his filing. Within a few days, church attorneys succeeded in sealing the case files, but in the intervening days, any member of the general public could obtain the text of the case from the court, and with it, excerpts of the Advanced Technology.

Two reporters from the *Washington Post* obtained this information through the court and ran a lengthy article on the church on September 16. Despite the legal avenue through which the *Post* obtained this information, it was promptly added to the church's suit against Lerma. The revised suit claimed that *Post* reporter Richard Leiby "choreographed and instigated" Lerma's actions as part his own fifteen-year "campaign of harassment" against the religion. The case against the *Post* has since been thrown out, because the information was obtained through legal methods and because the newspaper had not violated the doctrine of fair use. The order to search Lerma's property has been modified to allow his attorneys to be present during the searches of his hard drive.

An order was issued in August that forbade the continued dissemination of the materials in the Fishman case, but by that point, it had been posted on almost a dozen sites on the Internet.

Also in August, marshals in Boulder, Colorado, acting on a church suit, raided the site of a bulletin board operated by Lawrence Wollersheim and Robert Penny called FACTnet. As in the Lerma case, the courts later vacated the initial temporary restraining order and ordered the church to return the seized equipment and files to the two men.

International Law?

In September, local police and Scientology officials visited the offices of XS4ALL, an Internet service provider in Amsterdam, Netherlands. Dutch law provides stronger protection than US law, so there was no search of any computer files and no seizure of equipment. Instead, the officials wrote down the serial numbers of all equipment in the XS4ALL office in preparation for a possible suit seeking to seize XS4ALL's assets.

The church complained that an anonymous remailer at XS4ALL was used to transmit its copyrighted documents. While that case has yet to be filed, a similar case in Finland forced another anonymous remailing service to reveal the name of a user the church alleged had uploaded secret material.

Implications For System Operators

While the issues of what constitutes fair use and whether religious tracts can qualify as trade secrets are thorny enough, the tactics of the church in naming system operators and Internet service providers in its suits have an impact that goes far beyond the disagreements between the church and its former members.

THE DOCTRINE OF "FAIR USE" CAN ALLOW THE USE OF COPYRIGHTED MATERIAL WITHOUT THE AUTHOR'S PERMISSION.

Should a bulletin board or service provider be found liable in such a case, it would imply that operators are responsible for ensuring the copyright ownership of all the material on their services, a mammoth task that observers worry would force many providers out of business for fear of litigation.

The courts have yet to see it that way, however. In the case of Erlich, the church also named bulletin board owner Tom Klemensrud and Internet provider Netcom in their suit. The suit against them was thrown out on February 22. A similar suit was filed in the Lerma case, naming Internet provider Digital Gateway Systems. The case against this provider was also dismissed.

Godwin believes this could be a more troubling issue than the particulars in the Scientology cases. "There's a lurking issue of how much blame can be placed on system operators for copyright infringement. I hope that Congress or the courts will realize this is a First Amendment issue and act to protect providers' rights."

The church, while continuing its trend of naming service providers in its suits, asserted in a position paper that service providers have the responsibility to act against alleged infringers when copyright holders blow the whistle.

"The position we believe to be most beneficial to all concerned is that an access provider has a responsibility to promulgate rules of conduct for its users and to enforce those rules," the church's paper says. "While it can be argued that access providers have no responsibility for controlling the tremendous flow of information through their systems, when evidence is presented of infringement of intellectual property rights, then access providers have a responsibility to take action. Moreover, when a particular user has shown a repeated pattern of abuse, the person should be removed from the system or the access provider held liable for any damage created."

Service providers fear that such a policy will force them to conduct extensive investigations and evaluate fair use claims, a labor-intensive exercise most wish to avoid.

"We don't want to be thrown into the liability chain," says William Burrington, general counsel for America Online. "We don't want to be put in the role of playing net cop." A panel of legal and online experts met in October and suggested the creation of a copyright arbitration board to quickly hear cases, but the torturous process of determining fair use and trade secret status would still remain a problem they agreed. And observers like Godwin worry that groups willing to use their legal clout could significantly affect the outcome of such a board's decisions.

"That would be par for the course," he says. "[The Scientologists] recognize there's a strong risk that they'll lose most, if not all, of these cases, but they hope that fear of litigation, fear of lost money through litigation, and fear of unlawful search and seizure will quiet discussion."

While the church said it must pursue this course of action to preserve the religion against those who "would destroy the spiritual future" of its followers, Godwin says the methods it is using to do this are what's focusing negative attention from Internet users on the church.

"They're finding that they're generating a lot of bad publicity, and they're getting people interested from a freedom of information aspect who, before, couldn't have cared less about Scientology," he says. "I think there's already a backlash." Godwin cited the Netherlands case as an example. "People there are posting copies of the Fishman declaration on telephone poles, and it's been added to hundreds of servers around the country. When you show a willingness to throw your weight around, people are more than willing to strike back." ■

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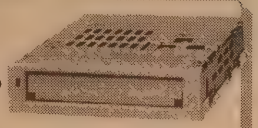

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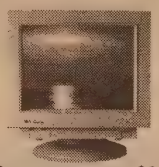

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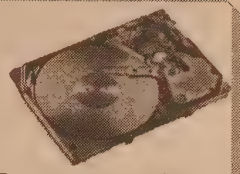

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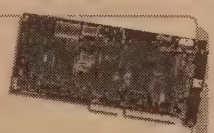

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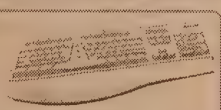

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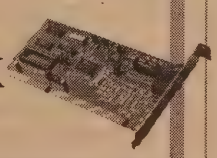

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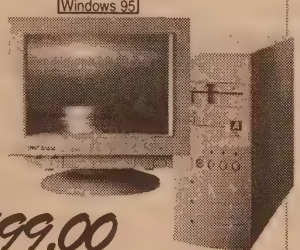

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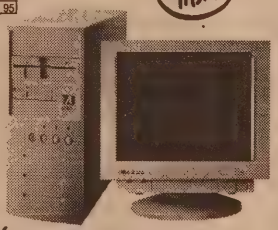

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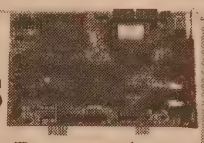

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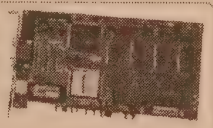

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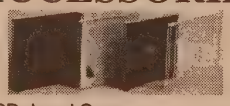

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MULTIMEDIA 101 *continued from page 170...*

That proves to be absolutely vital to this team's form of storytelling. Sanborn elaborates, "If you've got a dramatic structure, or you've got the tent poles of a dramatic structure, it's one way to start. It turns out that for Kaplan and me, it's the perfect way to write an interactive movie.

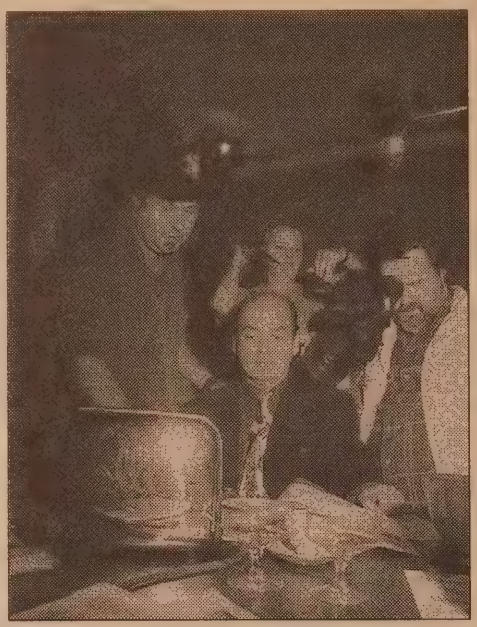
"It may not be the best way to write interactive songs—but what we did get out of it was an understanding that if there were musical elements laid down and the songwriters were thinking about 'All right, here's the center nexus of the song,' which is usually the chorus, 'if that is the hub upon which all of these other spokes rest, what are the spokes, how do they connect to the hub, must you travel through the hub every time to get back to the different spokes? How are we structuring it?'

"A lot of interactivity is about structure. Hiding the structure, revealing the structure, revelling in the structure, ignoring the structure. Because it's computer based and because it's system oriented, you can't get away from that—you just can't. You can do a lot of things with it, but it's like any set of limitations."

In the case of the "UnDo Me" song in *Meet MediaBand*, this comes down to a simple choice, when prompted at the chorus, of acting passively or aggressively in a relationship. However, there's also a "geek key," the option key, which lets you jump straight to the next decision point, because, as Sanborn wryly notes, "If I were going back into 'UnDo Me,' I'd break it into smaller pieces. Much, much smaller pieces—so you could have resolutions within resolutions, because that's truer to the emotional form. Some of the relationships should bottom out within the middle of the verse. The plug should be yanked and Kelley should be back up there again, 'What do I do? What do I do?'

"We kept the song form so that you can take each of the relationships through to the end in both passive and aggressive form. You can see what price is paid for staying in a relationship too long. You can also be sort of wistful for having yanked yourself out. There's actually some really good emotional points in the piece that I would stand by to a great extent—but again, knowing more now about interactive stories, the smaller the pieces, the more malleable the overall form, and the more you can hide the structure so that people can really feel like they're really making it up as they go along."

Thus, in *Psychic Detective*, the decision points are clustered comparatively much closer together; there are usually more than two choices; and, most significantly, if you don't make a choice the drama keeps moving and you are shortly presented with even more choices.



Sanborn: "We're trying to get it to the point where your choices are so impulsive, we're showing you possibilities without really telling you what the possibilities are—but you're reacting to them because you're in the middle of the storyflow."

Kaplan and Sanborn found that these multiple options were vital techniques for keeping the audience involved in the action—and then coming back to the title. "People will start to know that if they respond to the first thing that's thrown at them that there's going to be more coming, that if they just held back a little bit they'd have seen something else, or they would have more options or more chances or more possibilities," says Sanborn. There's a small Catch-22 buried here because, as Sanborn then admits, "They'll only know it by playing it again."

To get people coming back and going through the title repeatedly, their involvement has to be fostered. Firstly, Sanborn figured that, "There has to be an underlying feeling that if you make too many just quick-twitch responses, you know you're short-circuiting the stuff. There's dozens of sequences where we're offering you nine, ten, twelve things you can do all at the same moment. So you know there's stuff you haven't done. You know there's other possibilities. We've built that in."

However, the key element to making this technique work is old-fashioned emotional involvement and complexity. When asked for distilled advice, Sanborn replies, "What you're looking at are different emotional moments. How those emotional moments are organized over time is what makes the movie, is what makes the story.

"I think that what works well in interactive stories is a level of gut emotional attachment that still remains somewhat ambiguous, so that you're responding to prompts for a number of reasons. If the prompts are made available to you at different points for different reasons, you will intuit, not necessarily the first time through, but the second and certainly in multiple times through, what your reaction is to the situation. When you feel it in your gut you will respond."

INTERFACE

Psychic Detective plays on game machines like the 3DO and Sony PlayStation as well as PCs and, hopefully, eventually Macintosh (but there is currently no scheduled Macintosh release) so the interface is necessarily simpler than a real computer game. This is not a drawback, since it actually forces *Psychic Detective* to play more like a movie. As you watch events unfold in the central screen, icons pop up around the edge which, if selected with your controller, allow you to transfer to other characters' heads or receive those retrocognitive flashes from objects.

Sanborn explains that the object was to make it so simple that such things as a manual are basically unnecessary. His reply to a question about the specific technique of how people choose to make their intentions known echoes his overall assertion about there being no rules to break when it comes to interactive storytelling: "That's a question of interface, and I think that interface is also totally up for grabs. You can redefine it as you like. I think that pictographic or iconographic stuff is very powerful. If you've tied those icons into a general structure, it's easy to let people make very quick, very intuitive choices."

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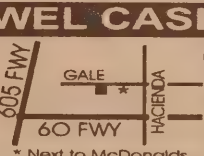

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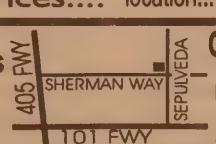

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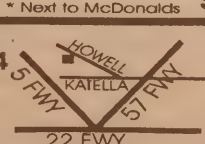

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DRAMATIC STRUCTURE, PLOT AND REAL LIFE

Those choices become so intuitive not only because of this simple interface, but also through the alliance of the emotional involvement with the interwoven storylines.

Sanborn continues, "All of our prompts are tied to the story, so things appear and disappear as the story transpires. All the prompts are affected by what you do, so as you change the movie, things will or will not be there, depending on which path you're taking and how you're organizing things. We've also figured out a way to structure time by taking dramatic moments that are tied to character and by how much your character knows, how you've driven your character, a lot of different things, and we've reorganized those elements in time.

"It seems simple now, but, when we were actually working on *PD*, it was something that we wanted to do, and we didn't know how to do. It turned out to be pretty simple. It's a matter of, if you made this choice, then this is not going to be available and this will be—but if you made that choice then it's going to be totally different. It's pretty simple if you've got a known set of dramatic elements which are going to drive the story forward.

"What a character does and doesn't know is what always informs where you are in the story. It's just obvious in a game that you make that one of the undercurrents to the whole thing, along with the cumulative intelligence that a player brings to a certain situation, like watching a movie for a second time. You may know exactly the plot but you're looking at different things, you're looking deeper into the movie. Some movies like *North By Northwest, Citizen Kane*, or *The Fugitive* are very satisfying to watch again and again. I know the story intimately, but I'm watching the beats unfold and the play of characters against plot. It's so well done, I'm totally hooked, still totally hooked.

"In an interactive movie I can change all that. I can definitely shift all that; this bullshit about interactivity and stories not being compatible is garbage."

The question that often arises about interactive storytelling around this point is how to keep the choices characters can make credible. Sanborn discovered that complexity is a vital ingredient. It's not a matter of either/or choices such as passive or aggressive; complexity can come from the plot: "The complexity is the plot, and we found that the cinema language that people know and understand is a very, very powerful resource that you can call on to get people to make the particular choices that they make.

"That's one of the first levels of involvement. When you get the plot involved and people are making decisions based on the changes in the plot, that's so complex. It starts with a 'Should I do this or should I do that?' But in *PD*, as you learn to use your psychic detective powers better and better, you can play the movie in different ways. And we have a MacGuffin in the middle of the whole thing which changes your powers.

"But that's just step one of this kind of thing. We're trying to get it to the point where your choices are so impulsive, we're showing you possibilities without really telling you what the possibilities are—but you're reacting to them because you're in the middle of the storyflow."

But, as Sanborn points out in a philosophical moment, choices are often incredibly trivial, even if they can have far-reaching effects. "Our lives are interactive stories. Every choice you make predicts a whole bunch of other choices. I'm going to wear this shirt. I walk into the meeting wearing that shirt, and three people in the room think I'm a jerk, and three people in the room want to know where I bought the shirt. Well, that's set a tone. That's a trivial example but think of the things you've said 'yes' to that you've later on thought, 'I should have said "no" to that.' You think, 'God, I've got some regret about that.' You know, that's the way we live."

DIRECTORIAL CONTROL

This is all well and good in real life, but, as Sanborn obviously earlier admitted when talking about dramatic structure and emotional involvement, the director's hand still exerts iron control behind the scenes.

This becomes obvious once again, when he discusses another key aspect to successful interactive storytelling: "The thing about interactive movies is that you're dealing with equal parts frustration and reward for the user. Like any good story, but particularly in a mystery setting, there has to be a frustration level, which should get the audience to say, 'What happens next?' But while you're frustrating them you also have to compel them to keep investigating, or they're going to change the channel, close the book, or walk out of the movie.

"There have to be rewards, and the rewards and the frustrations have to play off each other. So for every plot point that throws you in a tizzy, there's got to be something that rewards you a beat or two later, so that you say, 'Oh, I see where that fits in. I understand this now.' The more simplistic a movie, the more often you've got the reward plot points. And the more complex a movie, the rewards are very few—but when they come in, they just blow you away."

But it's not quite as simple as just that. With *Psychic Detective*, Sanborn found that there is a need for the audience to have some control over the process of frustration: "They have to know that any choice they make is going to be rewarded. Any choice they make, they have to be able to say to themselves, 'I did that. I made that cut, I pushed that character over here.'" But, he continues, "It may be followed immediately by a level of frustration, 'Oh, fuck! I didn't really want to do this.'"

As director, Sanborn knows that it's part of his job to control that frustration, and this is exactly where cutting the story into small pieces counts, "because you can make the rhythm so much more complex. You can also make the rhythm of the choices more fast, but I think ultimately what you want to do is you want to get the people in the mood to feel like they're making the entire thing up themselves. Yes, you've given them all the parts and pieces, but they have to feel like they can do almost anything they want to do that's true to the story and the characters."

Sanborn explains that, "How the interactivity is finally realized is another level of editing—the authoring process. There's the script which is the first cut. The actual video sequences are the second cut—and then there's the authoring process which is essentially the fine cut. What you can do once you've authored something is go back one step to the video and restructure things there, to be reauthored again if you want to change how certain parts of the interactivity are done." In essence, this comes down to reediting the video to suit the demands of interactivity and the prompts.

In *Psychic Detective*, the same basic scenes might be filmed in different ways. Sanborn explains that this provides "a lot of emotional shadings to things; and also that should spark,

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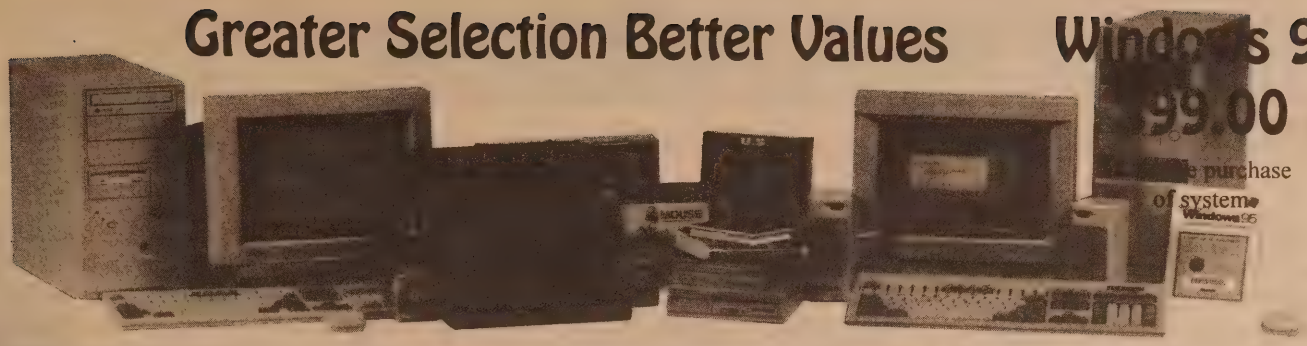

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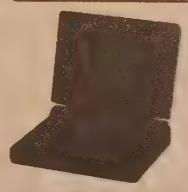

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MULTIMEDIA 101 *continued...*

hopefully, in the viewer a changing emotional attachment to different characters." Interestingly, filming with varying nuances was something the actors loved—surprisingly, it wasn't a betrayal of character. Sanborn figures that it's "because they could exit the scene a whole bunch of ways emotionally, which to an actor is like a dream. In character, they're getting to have their emotional buttons pushed in different order and different ways, and actors love how their character reacts to those emotional buttons being pushed. They're exploring much more of the limits and the definition of who they are as that particular character. That's real acting."

THE REAL SECRET IS IN YOUR MIND

All these techniques for interactive storytelling, however, still come down to the oldest thing in the book or around the campfire, perhaps—creating a believable world for the listener, viewer, player, participant.

Sanborn feels that *Psychic Detective* is successful because "we show it to people from hard core gamers to regular people and they go nuts. They're asking the question that I would like anybody to ask in an interactive movie which is 'What happens next?' Not 'How do I kill so and so?' or 'How do I do this or how do I do that?' But 'What happens to Lena? What happens to Eric? What happens here? What happens there?' They want to play it again and they want to play it again and they want to play it again. That's one of the biggest satisfactions that you can derive—that they're totally into the story. But they know they can change the story, they want to go in and manipulate it. It's an absolute human desire to manipulate."

Ironically, much of this success is due to having figured out these techniques for character manipulation rather than the story itself. Sanborn allows, "Understanding a character and then using that understanding to alter how the character travels through the story, and by extension the world, is where it's all at. The shifting relationships between characters in an interactive story is one of the more interesting things. The point is to understand the whole universe, inhabit the world, and then use that increasing knowledge skillfully and—this is the game aspect—to play within the rules. In any good movie, like in any good game, understanding is the key to bringing people along."

Some things seem to never change. ■

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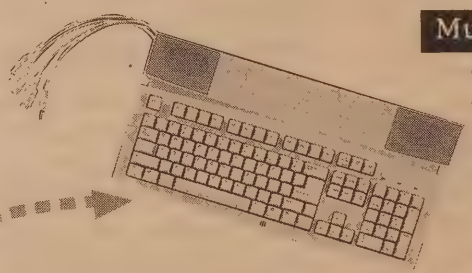

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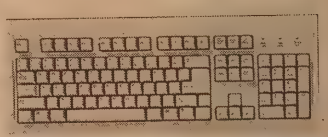

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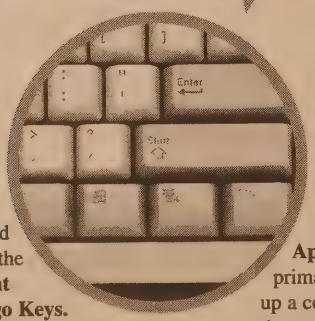

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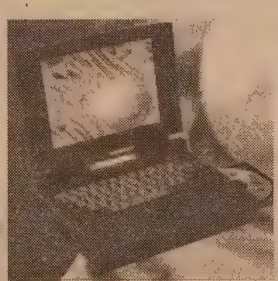

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MULTIMEDIA WORKPLAY

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BOOKS: DESIGNING INTERACTIVITY; WOOFING THE WEB

Interactivity by Design: Creating and Communicating With New Media by Ray Kristof and Amy Satran (Adobe Press, 131 pp., $40.00) is a decent working treatise and technique roundup for media professionals producing interactive products. It's especially useful as a cautionary reality check for multimedia wannabes.

The authors are perhaps a bit more flowchart happy than every producer, but then no two shops work exactly alike. Our business is still an emerging one, and this book presents an extended critical checklist of all the steps that must be considered, many of which will need to be implemented in your project.

If you've used Excel and watched it get out of control with your data, to the point where you felt like you were trapped in a blind date with the IRS, The Cruncher might be a more helpful and benign alternative.

Each month we seem to be ever more enmeshed and enraptured with the Internet, as every textile mill and taqueria is lofting up a Web site. Mary Jane Mara's *Web Head* (Peachpit Press, 272 pp., $24.95) is primo for Macintosh ether treaders. Many other books are UNIX and Windows-centered, and not all Netscape elements are alike for both Motorolans and Intellites. Mara concisely covers Netscape, MacWeb, and MacMosaic, so that you should be able to find what you need directly whichever browser you are navigating with.

There is a wealth of information on the net, external helpers, HTML, setting up pages and sites, and a list of those Internet service providers that can (not all do) support your Macintosh. ■

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Online Guide

Web Page Listings

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istan. [Exp. #146.]

Santa Monica Web *http://www.smweb.com* City of Santa Monica in cyberspace. A city guide featuring visitor information, business directory, news. [Exp. #145.]

SF Jewish Bulletin *http://www.jewish.com/jb* The first Jewish weekly newspaper available in its entirety on the Web, includes articles, columns, calendar listings, classified ads, and more. [Exp. #146.]

Simon Wiesenthal Center *http://www.wiesenthal.com/* [Exp. #146.]

Society For Technical Communication, San Francisco Chapter *http://stc.org/* International nonprofit organization for technical writers and editors: meetings, newsletter, job leads, competition, annual conferences. [Exp. #147.]

Some Bay Area Progressive Stuff *http://www.emf.net/~cheetham/index.html* An events calendar and organizational directory of the Bay Area progressive community. [Exp. #146.]

Southern California Gay Wired *http://www.gaywired.com/~unity/index.html* The new, interactive source for today's gay and lesbian community in Southern California. [Exp. #145.]

Stardust: To Catch A Comet *http://pdc.jpl.nasa.gov/stardust/home.html* Stardust is a NASA space exploration mission for the 21st century. Launch of the probe is slated for Feb. 1999, with the encounter of comet Wild 2 set for Dec. 2003 [Exp. #147.]

Steppinstone Entertainment *http://www.primenet.com/~kantoku/* Web page creating services, independent film company information, and more. [Exp. #147.]

This Is True *http://www.infoark.com/freecom/* Home of the popular "This Is True" newspaper column, which is also available by listserv. [Exp. #146.]

U.S. Holocaust Memorial Museum *http://www.ushmm.org* Now provides access to the complete catalog of the U.S. Holocaust Memorial Museum Research Institute document archives. [Exp. #146.]

University Of Phoenix Online *http://www.uophx.edu/online/* Accredited university offering online business degree graduate and undergraduate programs for working adults. [Exp. #146.]

US Geological Survey *http://www.usgs.gov/* Home page for USGS, with access to geologic, hydrologic, and mapping info. [Exp. #147.]

USS Liberty Home Page *http://www.halcyon.com/jim/ussliberty/* Information and files about the American ship that was attacked by the Israelis during the Six Day War. [Exp. #143.]

Webcorp Political Satirical Content *http://www.webcorp.com/* Pages include The Richard Nixon Audio Archive, Political Babble Generator, New Orleans Cemetery Images, Wheel O'Congress, and others. [Exp. #147.]

Women's Wire *http://women.com Women's Wire* is an interactive magazine focused on women's interests. Free to visitors. [Exp. #146.]

Yoga Fitness *http://www.iyoga.com/yf/* Yoga Fitness is the premier Iyengar yoga studio in the South Bay. [Exp. #146.]

WEB/INTERNET SERVICES

Bay Area Internet Solutions *http://www.bayarea.net* Full service ISP, specializing in connecting businesses to the Internet. Web design and hosting. (408)447-8690. [Exp. #144.]

BayScenes *http://www.bayscenes.com/* An affordable Web page provider for Northern California for individuals and small businesses. Customers include local bands, artists, craftspersons, sports centers, and non profits. [Exp. #147.]

Bonsai Software *http://www.bonsai.com/* Bonsai Software, Inc.—software consultants, WWW setup, and WWW hosting services. [Exp. #145.]

CCnet Inc. *http://www.ccnet.com* Prices and services for CCnet, an ISP for the Bay Area and Silicon Valley. Excellent resource for home buyers in Contra Costa County. [Exp. #145.]

Computer Events Directory *http://www.kweb.com/* A leading source for information technology events worldwide. [Exp. #146.]

Creative Element Home Page *http://ocf.berkeley.edu/~daaron/creative.html* Home page for Creative Element, specializing in web production, graphic design, software engineering, and computer

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- 850 MB IDE Hard Drive
- PCI/VLB Diamond STL 64 w/1M Dram
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- 101 Keys Enhanced Keyboard
- A-4 Mouse with Pad
- Windows 95

486DX2-66MHz $1620
486DX4-100MHz $1650
PENTIUM 75MHz Zappa $1790
PENTIUM 90MHz Zappa $1860
PENTIUM 100MHz Zappa $2125

— MOTHERBOARDS NO CPU, NO RAM —

•VLB:
IBM Blue Lightning VLB486SLC2-75MHz/Math/CP 125
IBM Blue Lightning VLB486SLC2-75Mhz with 256K Cache 165
VLB SiS MB486/256K/3VLB/GREEM/ZIF/4*72Pin.....105
VLB PC MB486/256K/3VLB/GREEN/ZIF/4X30+2X72Pin.....90

•PCI:
UMC PCI/SA MB486/256K(512K),72P, IDE+I/O.....35
SiS/OPTI PCI ISA PENTIUM(90/100Mhz)/256K/72P 89
Intel ZAPPA Triton P 75/90/100/120Mhz/256k ide+io.....225
Intel ENDEAVOR Triton P 75/90/100/120/133Mhz/0K Cache. 265
Intel ENDEAVOR Triton Pentium with 256K Asyn.Cache.....335
Intel ENDEAVOR Pentium with 256K Pipe-line Burst Cache. 85
Intel Advanced/AS P 75-150Mhz On-board ATI mach64 335
Asus Triton P54pl4xe 75-133Mhz 256K Async. Cache 215
Asus Triton P54pl4xe 75-133Mhz with 256K Pipe-line Cache 325
Asus Triton P54pl4xe with 512k Pipe-line Burst Cache 445
Triton Chip P 75-133Mhz PCI/ISA with IDE+IO. 185

* MICROPROCESSORS - CPU *

Intel Pentium 133Mhz CPU 630
Intel Pentium 120Mhz CPU 520
Intel Pentium 100Mhz CPU 345
Intel Pentium 90Mhz CPU 275
Intel Pentium 75Mhz CPU 195
Intel 486DX4-100Mhz CPU. 35
Intel 486DX2-66Mhz CPU 115
Intel 486SX-33Mhz CPU. 81
AMD 486DX4-120Mhz CPU. 120
AMD 486DX4-100Mhz CPU. 105
AMD 486DX2-80Mhz CPU 75
AMD 486DX2-66Mhz CPU 67
Pentium CPU Cooling Fan. 12
486 CPU Cooling Fan. 6

* MEMORY - RAM *

Simm 1MB (1*3) 30 pin. 40
Simm 4MB (4*9) 30 pin. 155
Simm 4MB (1*32) 72 pin 140
Simm 8MB (2*32) 72 pin 280
Simm 16MB (4*32) 72 pin. 495

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*** VIDEO CARDS ****

MGP Card w/Printer Port 12
Cirrus Logic 5401 16Bit/800x600/256k 25
Trident 9000 SVGA 16Bit/1024x768/512k. 35
Trident SVGA 8900-D 16Bit/1280x1024 /1MB. 55
Cirrus Logic 5428 VLB, 1MB/2MB Dram 69/118
Diamond Stealth 64 VLB, S3 1MB/2MB Dram (Oem) 35/125
Diamond Stealth 64 VLB, 2MB/4MB Vram (Oem).....255/405
ATI Graphics Winboost VLB-64 1MB/2MB Dram 139/179
ATI Graphics Winturbo VLB-64 2MB/4MB Vram 255/395
Trident 9440 PCI 1MB/2MB Dram 67/115
Diamond Stealth 64 PCI, 1MB/2MB Video Dram (Oem) 26/168
Diamond Stealth 64 PCI, G2001 1MB/2MB Dram (Oem).....115/165
Diamond Stealth 64 PCI 2M/4MB Video Vram (Oem) 245/395
ATi Graphics Winboost PCI-64 1MB/2MB Dram.....139/179
ATi Graphics Winturbo PCI-64 2MB/4MB Vram.....245/385
9 Motion 771 PCI with 2MB/4MB Vram (Oem Pak) 285/415
9 Imagine 128 PCI with 4MB Vram (Retail Pak) 769

*** CONTROLLER CARDS ***

ISA IDE Controller with I/O 13
AT High Speed I/O w/IDE Controller (5100AT) 28
VLB High Speed IO W/Enhanced IDE (6000VL) 40
VLB IDE with I/O (2s/p/g) (GS) 17
Adaptec 1542CP 16-Bit SCSI-II (Oem Pak) 170
Adaptec 1542CPK 16-Bit SCSI-II w/Kits 250
Adaptec 1542CPK plus Corel-designed SCSI software 295
Adaptec 2742T EISA SCSI-II (Oem Pak) 215
Adaptec 2742ATK EISA SCSI-II w/Kits. 390
Adaptec 2742TK plus Corel-designed SCSI software 460
Adaptec 2842AK VLB SCSI-II w/Kits 235
Adaptec 2940 PCI SCSI-II (Oem Pak) 178
Adaptec 2940K PCI FSCSI-II w/Kits (Oem Pak) 205
Adaptec 2940W PCI FSCSI-2 (Obm) 245
Adaptec 2940WK PCI Wide SCSI-II w/Kits (Oem Pak) 285
BusLogic TK-946C PCI SCSI-II (with Kit) (Original) 45

*** I/O CARDS ***

AT I/O Card (2s/p/g) 11
High speed AT IO (2s/p) 16c550 chips 26
Printer Card 11
Printer Card (Upto 2 Ports) 13
Two Printer Port Card 19
RS-232 Card (2 Serial Ports) 12

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Teac 1.2MB 5.25" Beige 42
Mitsumi 1.2MB 5.25" Beige 36
Teac 1.44MB 3.5" Beige 35
Mitsumi 1.44MB 3.5" Beige 33
Teac 1 2&1 44 Dual Floppy Drive. .....

**** HARD DISK DRIVES ***

• WIDE SCSI •
Conner CFP2107W 2.1GB/9ms/FWS2/512K. 945
Conner CFP4207W 4GB/9ms/FWS2 512k. 1270
Micropolis 4221W 2.1GB/9ms/FS2/512k/7200rpm. 1129
Micropolis 3243W 4GB/8.5ms/512K/7200rpm. 1559
Micropolis 1991W 9.0GB/12ms/FWS2/1024k/FH 2395
Quantum Atlas XP32150W 2 1GB/8ms/FWS2 1024k. 950
Quantum Atlas XP34300W 4.3GB/8ms/FWS2 1024k. 1625
Seagate 31230W 1.05GB/9ms/FWS2/512k 645
Seagate 32550W 2 13GB/8ms/512k/FWS2/7200rpm. 1049
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Micropolis 1936AV 3GB/12ms/512K/FH 775
Micropolis 3243AV 4GB/8.5ms/512k/3.5"/7200rpm 1539
Micropolis 1991AV 9GB. 2190

420MB *
Conner CFS 425A 425MB/14ms/32k IDE 139
Quantum TR420A 420MB/14ms/128k E-IDE 143
Maxtor MX7425AV 425MB/12ms/32k E-IDE 142

540MB - 850MB *
Quantum FB540A 540MB/12ms/128k E-IDE 165
Quantum FB540A 540MB/12ms/128k E-IDE 165
Quantum LHT540S 540MB/11ms/128K FS/2 183
Quantum Trailblazer 850MB/14ms/128k E-IDE 205
Quantum MAV540A 540MB/14ms/128k E-IDE 165
Quantum MAV540S 540MB/13ms/128k FS/2 175
Conner CFS540A 540MB/15ms/64K IDE 164
Conner CFS850A 850MB/12ms/64k IDE 189
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WD AC31200 1.2GB/10ms/64k E-IDE. 285
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2 GB - 9 GB *
Conner CFP2105S 2.1GB/9ms/512K FS/2. 668
Conner CFP2107S 2.1GB/9ms/512K FS/2 7200rpm 715
Conner CFP4207S 4GB/9ms FS/2 512K 7200rpm. 1065
Hewlett Packard C3725 2.14GB FS/2 9.5ms 512K 698
Micropolis 4221 2GB/9ms/512K/7200rpm/FS2/HF. 855
Micropolis 1936 3GB/12ms/512K/FS2/FH. 779
Micropolis 3243 4.3GB/8.5ms/512K FS2/7200rpm/HF 1290
Micropolis 1991 9GB/12ms/512K/FS2/FH. 2195
Quantum Atlas 32150S 2.1GB/8ms/1024K/FS2 825
Quantum GXP34301S 4.3GB/8.6ms/7200R/FS3 1085
Seagate 32430N 2.14GB/9ms/512K/FS2. 835
Seagate 32550N 2.14GB/8ms/512K/6200R/FS2 955
Seagate ST15230N 4.29GB/ 9/11ms/512K/FS2 1095
Seagate ST15150N 4.1GB/10ms/1024K/7200R/FS2 1398
Seagate 410800N 9.09GB/11ms/512K/FS2/FH 2095

*** KEYBOARDS ***

Mitsumi 101K Enhanced Keyboard 24
Focus 101K Keyboard with Dust Cover 32
Focus 102K Keyboard 26
Focus 111K Keyboard with Calculator 40
Focus 130K Programmable KB w/Calculator 55
Keytronics 101K Keyboard. 27
Fujitsu 101K Keyboard 41
Lite-On 101K Keyboard (Honeywell Oem) 33
MicroSoft Natural Keyboard 88

**** MONITOR ****

9" 931MV MONO-VGA Paper White Monitor 155
14" BTC14 MONO Paper White Monitor 86
14" BTC14VM 14" SVGA-MONO Monitor... 109
14" CTX1451C SVGA .28DP, N.I. 235
15" CTX1562CLR SVGA Flat Screen, N.I. 345
17" CTX1765GM SVGA Flat Screen, N.I. 628
17" CTX1785GM SVGA 27dp Flat Screen 685
15" MAG-DX15F 28dp 1280x1024 MPR-II monitor 345
17" MAG-DX17F .26dp 1280x1024 MPR-II monitor 639
17" MAG-MXP17F .26dp 1600x1280 MPR-II monitor 895
21" MAG-MX21F .28dp 1600x1280 MPR-II monitor 1650
14" Viewsonic 14ES .28DP 1024x768 Plug+Play MPRii 275
15" Viewsonic 15ES .28dp 1280x1024,60Hz,LR,Flat 385
15" Viewsonic 15G .28dp SVGA N.I. 425
15" Viewsonic 15GS .27dp OnView Plug+Play TCO 445
15" Viewsonic 15GA .27dp with Dome Speakers 489
17" Viewsonic 17GS .27dp 76Hz,Low Radiation,Flat 749
17" Viewsonic 17GA .27dp OnView Controls, Dome Speaker 835
17" Viewsonic 17PS Milli-freq, .25dp 919
20" Viewsonic 20G Digital 76Hz .28dp, 1600x1280 1335
20" Viewsonic 20PS .27dp 1600x1280 N.I.,76Hz,LR,Flat...1395
21" Viewsonic 21PS .25dp 1600x1280 N.I.,76Hz LR,Flat....1695
15" NEC 15xv .28dp SVGA Monitor 75
15" NEC 15xe .28dp 1024x768 SVGA Monitor 535
15" NEC 15xp .28dp 1024x768 Power Manager SVGA Monitor 615
17" NEC 17xv .28dp 755
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European Style Desktop Case w/200W 49
European Style Mini-Tower Case w/230W 40
European Style Mini-Medium Tower Case w/220W 47
European Style Medium-Tower Case w/230W 67
European Style Full-Size Tower Case w/250W 82
Super Server Case w/300W 12 Bays, 3 Fans, Door (H/W/D=580X280X440mm, Black color also avilable) 375
External Chassis for 3.5" Hard Drive w/40W 75
External SCSI-II Hard Drive Cable. 28

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(HEWLETT PACKARD)
HP Deskjet 600 Printer 285
HP Deskjet 660C Color Printer 399
HP Office Jet 775
HP Deskjet 1200C. 1265
HP Deskjet 1200C Plus 2043
HP LaserJet 4L/4ML with Toner 485/835
HP LaserJet 4+/4M+ with Toner 1385/1885
HP LaserJet 4P with Toner 839
HP LaserJet 5P with Toner 865
HP LaserJet 4V/4MV Printer with Toner 1875/2685
HP 4Si Laser Printer 2795
HP Scanjet 3C Scanner. 895

MULTI-MEDIA

Sony 76E 4 x Speed IDE CD-Rom 149
Sony 76S 4 x Speed SCSI CD-Rom 189
Toshiba 5302B Quad Speed (IDE) CD-Rom 155
Toshiba 5301B 4 4x Speed SCSI CD-Rom 199
Mitsumi Quad Speed (IDE) CD-Rom 125
NEC 512 6x Speed (IDE) CD-Rom. 379
Panasonic 574B Quad Speed IDE CD-ROM 145
Creative Lab Sound Blaster 16 BASIC Vibra IDE (Oem) 75
Creative Lab Sound Blaster 16 ASP SCSI-II 205
Creative Lab Sound Blaster AWE32 Value Edition 235
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Creative Lab Sound Blaster Performance 4X 389
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Sound Blaster 16 audio card
Stereo speakers and 16 titles.
Creative Lab Sound Blaster Value CD 4x 288
Quad-speed CD-Rom
Sound Blaster 16 audio card
Stereo Speakers and 11 titles.
ESS 1688 Multi-Media Kits: 115
Double Speed CD-Rom IDE Type
Mozart 16 bit sound Card
8W Mini Speakers

** NETWORK PRODUCTS **

(ARCNET)
8/16Bit Arcnet Auto-Select, BNC only 36
16 Bit Arcnet BNC+TP For Twist-Cable and BNC 46

(HUB)
Arcnet 8 Ports Active HUB, BUS/STAR,Coaxial Cable 99
Arcnet 8 Ports Active HUB, Twisted Pair 140
Arcnet 4 Ports Passive HUB 11
Arcnet 4 Ports Active HUB Twisted Pair 87
8 Ports Ethernet HUB (AUI/BNC/8 RJ45)-Standard 145
8 Ports Ethernet HUB Palmtop Size with DC Adaptor 119
12 Ports Ethernet HUB (1 Dedicate) 275
12 Ports Ethernet HUB (1BNC+1AUI+12TP) 390
12 Ports Ethernet HUB (1BNC+1AUI+12TP,Stackable) 680
16 Ports (BNC/AUI/IEEE802.3/INT.PS/19" Standard) 279
16 Ports Ethernet Concentrator 375

(COAX)
16 Bit Ethernet Combo (RJ45/BNC)Jumperless 34
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32 Bit EISA Ethernet (AUI/BNC/TP) 3-in-1 Combo 195
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Artisoft Lantastic V 6.0 For Dos/Wwindows. 70
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Novell Netware V.3.12 5 -User 3.5" or CD 395
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Novell Personal Netware V.1.0 45
Novell Netware LITE V.1.1 39
Windows for Workgroup -full version 65
Windows for Workgroup -Add-on version 55
Windows 95 Full Version (Sell with System) 92

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25 FT RG-58 Cable with Connector 15
50 FT RG-58 Cable with Connector 25
RG-58 T-Connector 2.5
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Mouse:
Logitech MouseMan Serial 49
Logitech MouseMan PS/2 Version 49
A4 Mouse Serial 3 Buttons/Pad 10
MicroSoft Serial Mouse (Oem pak) 35
MicroSoft BUS Mouse (Oem pak). 55

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(SMARTLINK)
Internal Type:
9600SR/2400 fax modem internal 45
Cirrus Logic Chips,UPTO 57.6KBPS THROUGHPUT 55
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Rockwell Chips, int.s/r fax modem with ITU V.34 standard 125
28,800bps MNP5 & V.42bis data compression, error correction Up to 115,200bps throughput.

External Type:
AT&T CHIPS, ext.s/r fax modem with 14.4kbps V.17 fax 108
& 14.4kbps V.32bis/V.32/V.43bis/MNP 5 Modem. Upgradeable to 19.2Kbps
PCMCIA V.32bis 14.4kbps type II s/r fax modem ,with 129
V.42/MNP 2-4 error control, V.42bis data compression. Achieves throughput upto 57,600bps
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Conner 4.0GB SCSI/w One Free Qic-3080 Tape Cartridge.....525
Colorado PT10 1GB INT.BACKUP. 608
Colorado PT25/PT25E 2GB Int/Ext. Tape Backup 949/1099
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Colorado AB-11 External Adapter Kit 32
Colorado KE-09 External DRIVE Kit 70
Colorado FC-20 500KB/S-1MB/S Adapter Kit 78
Colorado TC-15 Data Compression Adapter Kit 75
Colorado CK-17 Data Cable (3 Conn.For Two Fdd) 11
*Cartridge for PT10. 35
*Cartridge for PT50(E) 45
*Cartridge for DJ-50 35
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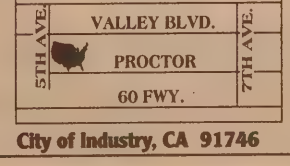

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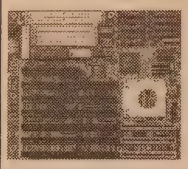

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Online Guide

Web Page Listings *continued...*

consulting. [Exp. #145.]

Dana Point Communications—Beach.Net *http://www.beach.net/* Dana Point Communications provides full net connectivity from dialup to 56K to T1 leased lines as well as a full range of Web services. [Exp. #146.]

Delta Design Services *http://www.delta-design.com/* Full service Web consulting firm: consulting, design, hosting, and marketing for any size business. [Exp. #147.]

Delta Internet Service *http://www.delta.net* Internet access provider, SLIP, PPP, Shell, Usenet, IRC, FTP, Gopher, Archie, free personal Web space. [Exp. #147.]

DNAI's MacPac ISDN *http://www.dnai.com/isdn.html* Direct Network Access is the Mac user's source for easy, affordable ISDN access. [Exp. #146.]

ElectriCiti Internet Services *http://www.electriciti.com/* Makers of PowerStation—inexpensively create professional Web sites in minutes, one year of Internet access. [Exp. #147.]

Flamingo Communications *http://www.fcom.com/* Provides reliable Internet access to individuals and businesses in the Los Angeles South Bay. [Exp. #146.]

Fountainhead Internet Systems *http://www.fountainhead.com/* Designers of World Wide Web sites. Host of the LA Superstation. LA Advertising. [Exp. #145.]

Fulldigital *http://urban1.ni.net/* Internet consulting, Web page development and hosting. Special interest in urban markets and equal access. [Exp. #147.]

Global Entrepreneurs Network *http://www.entrepreneurs.net/cyberlink/gen/htm* Premier Internet Service Provider. Complete WWW Site set-up, autoresponders, ftp site, networking resources, tools, etc. [Exp. #146.]

Gregory Springer Multimedia *http://www.webcom.com/~gsmmedia* Multimedia and home page design. Create Windows .EXEs and Help files for floppy or Internet distribution. [Exp. #145.]

Hurricane Electric *http://www.he.tdl.com/space-services.html* Hurricane Electric offers Web space for $1 a month as well as full-service Internet marketing including design, publicity, and analysis. [Exp. #146.]

HYNET Technologies *http://www.hynet.com* Providing unique systems that seamlessly integrate hypertext, smart search engines (HYNET), and databases for CD-ROM and Internet publishing. [Exp. #144.]

Iguana Multimedia *http://www.iggy.com/imm.htm* Iguana Multimedia provides Internet presence (Web pages), Web page design, and consulting for small business (at attractive prices.) [Exp. #146.]

IKON Communications *http://www.ikon.com* Web page designers—filmmakers with great taste and a sense of humor. [Exp. #145.]

Interactive Home Page *http://www.soos.com/homepage/homepage.html* Wishing you had your own Web page, but haven't learned HTML? Here's help. A do-it-yourself Web page. [Exp. #147.]

InterBIZnet *http://www.ibiznet.com/* We provide businesses in Southern California with Web design, hosting online marketing, and Internet expertise. [Exp. #143.]

Internet Business Guide *http://www.netcreations.com/ibg/* The second edition of the Internet Business Guide. Lets the experts show you how to make money on the net. [Exp. #146.]

Internet Literacy Consultants *http://www.matisse.net* We help people understand and use the Internet and related technologies to accomplish their goals, via seminars and consulting. [Exp. #145.]

Internet Marketing Services, Inc. *http://www.netmktg.com/* Full-service Internet solutions: quality Web pages, ISDN/T-1 access, webspace, graphics, CGI programming, online applications. [Exp. #147.]

InterNex Information Services *http://www.internex.net* Premier Internet service provider; high speed (ISDN, frame relay, WWW server). [Exp. #146.]

JES & Associates, Inc. *http://www.jes.com/jes* Hands-on workshops covering PICK, Advanced PICK, Unidata, uniVerse, UNIX, Internet, and WWW. [Exp. #144.]

MediaCity World *http://www.MediaCity.com/* Comprehensive, affordable Internet services. International Business Web Sites and Design, server co-location, and HTML classes. [Exp. #146.]

Muns Designworks *http://www.deltanet.com/users/dznwks/* A home page designer who specializes in 3-D graphics. This is a gallery of Paul's raytraced graphics. [Exp. #146.]

NCY Internetworks *http://www.ncy.com/* Dedicated to provide businesses, organizations, and individuals with Web site and page design services. [Exp. #146.]

Net Advantage *http://www.netadvantage.com/* Web site developer and marketing agency. [Exp. #144.]

NET-ism *http://www.netism.com* NET-ism implements your local and wide area network and Internet connection expertly and efficiently.

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(Monitor Not Included)		MidTower Case

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Pentium 100	$1709	1.44 FDD	*Pair Speakers*
Pentium 133	$1999	560MB HDD	*14 Titles*
		Mouse	*14.4K Fax Modem*
		15" SVGA N.I.	*Mid Tower*
		SVGA Card w/ 1MB	*101 KB*

All Pentium based system uses Intel Triton Chipsets

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1.2GB West. Dig. HD	295	VLB Enh. IDE Contrl.	17
1.44 MB Floppy (Teac)	35	VLB Enh. Ctrl w/ BIOS	39
1.2 MB Floppy (Teac)	45	VLB Hi-Speed I/O	25
Sony 55E CD-ROM D/Spin	85	VLB SVGA Card w/1MB	65
Sony 76E 4X CD-ROM	149	PCI SVGA w/1MB	65
Panasonic 4X IDE CD-ROM	129	Dia.64 VLB w/2MB (D)	169
Toshiba 4X IDE CD-ROM	165	14" Sham. 1452 N.I.(.28)	219
SoundBlaster Vibra IDE	79	14" Sham. 1407 Dig. (.28)	239
14.4 Int. Fax/Modem	55	15" SVGA Shamrock (.28)	319
Mini Tower	39	17" Shamrock 1703 (.28)	559
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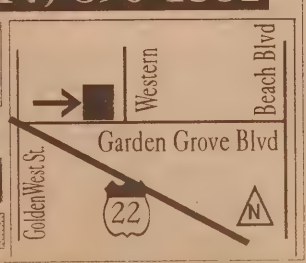

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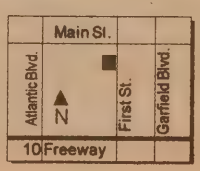


Online Guide

Web Page Listings *continued...*

[Exp. #145.]

NetRoam, Inc. *http://www. netroam.com/* Provides Web design, publishing, advertising, consulting, support services to all types of small or mid-sized organizations. [Exp. #146.]

NetWings *http://netwings.com* NetWings is a software package that turns a small Macintosh into a full Internet server. [Exp. #143.]

NewsWEB *http://www.m2.com* NewsWEB provides free worldwide news, updated throughout the day to Web users as well as dedicated distribution service for organizations. [Exp. #146.]

OneEarth *http://www.1earth.com/* OneEarth works to increase the impact of the rapidly growing number of philanthropic, health conscious, environmentally conscious, and socially conscious organizations and companies in our communities through the Internet media. [Exp. #147.]

ORKA, UCR's net.citizen Directory Services *http://orka.ucr.edu/orka* Search for email addresses by name, organization, and/or hosts. From the Computer Science Dept. at UC Riverside. [Exp. #146.]

Over The Net *http://www.otn.com/* Provides complete Web site development, hosting, management, and a dedicated full bandwidth T-1 link directly to UUNET. [Exp. #146.]

P-Net *http://www.p-net.com* P-Net offers complete design, service, and support for your Web pages. Support includes HTML coding, CGI scripting, and scanning. [Exp. #144.]

PacNetWeb *http://www.pacnet.com* Pacific Internet and its PacNetWeb are your single source for Internet products and services. [Exp. #144.]

Plug Into AVCom *http://siesta.packet.net/avcom/* Total solutions Web source. We will help you deliver your business concepts via the WWW. [Exp. #143.]

PowerCom Internet Marketing *http://soho.ios.com/~powercom/* Specializing in putting businesses on the Web. Services range from turnkey web site design to providing full-service Internet presence. [Exp. #147.]

Silicon Forest Media, Inc. *http://www.sfm.com/* Putting organizations on the Web. Strategy, design, programming, project management. [Exp. #146.]

SOOS—Strong Opinions On Success *http://www.soos.com/* Poetry by Web poets and small-business mall. Provides low-cost Web pages for small businesses. [Exp. #146.]

Spin Web Design *http://www.earthlink.net/~spin/* Full-service design/development company providing cutting-edge marketing and communication solutions for the Web. [Exp. #146.]

Stutz Thorpe Publishing House *http://www.webcom.com/~gsmmedia/stzthp* Online publishing. Download story readers programs. Categories: art, biography, fiction, nonfiction, and self-help. [Exp. #146.]

SupraNet Communications *http://www.supranet.com/* Learn how to create an effective presence on the Internet quickly. Hyperlinked with a glossary. [Exp. #145.]

Tenthmuse Interactive! *http://tenthmuse.com/* Introducing your business to the world. Complete presence solutions for businesses of all sizes. [Exp. #147.]

The L.A. Internet Everything Guide *http://worldwise.com/laguide* A total guide to Southern California and beyond. All serious publications and entrepreneurs invited to help develop this domain. [Exp. #146.]

The PostMaster *http://www.netcreations.com/postmaster/* Fill our one form, click one button, and your Web site is automatically posted to over one hundred newsgroups, mail lists, and Web directories. [Exp. #144.]

Touch Technologies *http:// www.in-touch.com* "Making your net work." Nationwide database, WWW, and information technology consulting. [Exp. #146.]

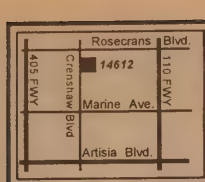
Value Net Internetwork Services *http://www.spiralwest.com/* Full-service Bay Area ISP. All 28.8 access, unlimited access. [Exp. #146.]

Vidya Media Ventures *http://www.vidya.com/* Combine solid technical awareness with creative energy to produce outstanding electronic media for the Internet and WWW. [Exp. #145.]

Visual Engineering's Ovation Web Page *http://www.cdrom.com/pub/viseng/* This site features Ovation, a UNIX presentation package. Release 2.0 includes HTML export and PowerPoint import! [Exp. #143.]

Web Page Design Pointers *http://www.garlic.com/rfwilson/smal-bus.htm* Twelve Web page design decisions your organization will need to make. [Exp. #146.]

Weber's Net Index Review *http://www.halcyon.com/duwamish/bulldogbeach/sw.welcome.html* Stanley Weber, the Siskel & Ebert of the Web, delivers short, snappy reviews of the sites everyone uses, everyday. [Exp. #146.]



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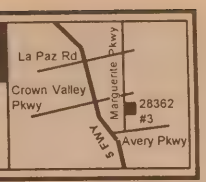

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HP5P	$ 855.00
HP4Plus	$1355.00
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KX-P1150	$139.00
KX-P2023	$199.00
KX-2130	$210.00
KX-P2135 color	$ CALL

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Action1100	$399.00
STYLUS-720color	$495.00
STYLUS-800	$225.00
LQ570+	$245.00
LQ870	$454.00
LQ1070+	$389.00
Action1500	$469.00

CANON BUBLEJET

CANON BJC-610e	$549.00
CANON BJ10SX	$239.00
CANON BJ200ex	$229.00

All prices are cash / check

Not responsible for typo. All product names are trademarks of their respective companies.

Prices subject to change without notice.

Business Hours:
Mon to Fri: 9AM to 6PM
SAT: 10AM to 4 PM

Resources

Calendar Of Events

Conferences, Shows, Special Events

November

November 11 Computer Show And Sale. Fresno Fairgrounds. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

November 11 Computer Super Shows. O.C. Fairgrounds, Costa Mesa. Super Show Productions. Call: (714)852-9267.

November 11–12 American Computer Mega Show. Shrine Auditorium, Los Angeles. American Mega Shows. Call: (818)961-3782.

November 12 Computer Show And Sale. Scottish Rite Center, San Diego. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

November 13–17 COMDEX/Fall Show. Las Vegas. SOFTBANK COMDEX Inc. Call: (617)449-6600.

November 13–18 Network Security '95: The UNIX Network Security Conference. Washington, DC. Call: (719)599-4303 or *sans@clark.net*.

November 15–17 IT Services '95 Conference And Showcase. Washington Convention Center, Washington, DC. Creative Expos & Conferences, Inc. Call: (301)596-8800.

November 18 Computer Show And Sale. Holiday Inn Select, Bakersfield. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

November 18 Computer Show And Sale. Palm Springs/Indio, Riverside County Fair. MarketPro Shows. Call: Paul Gallas, 1-800-708-7555 ext. 28.

November 18–19 Computer Marketplace. Fairplex Expo Center, Pomona. National Productions. Call: 1-800-800-5600.

November 18–19 Factory Surplus Computer Show. Jockey Club, Las Vegas. Arch Communications. Call: (702)597-1829.

November 25 Computer Show And Sale Expo. CSU, Northridge. Bonanza Show Productions. Call: (415)595-1053.

November 25 Computer Super Shows. Riverside Convention Center. Super Show Productions. Call: (714)852-9267.

November 25–26 American Computer Mega Show. CSU, Northridge. American Mega Shows. Call: (818)961-3782.

November 26 ACP Computer Swap Meet. Santa Ana. Super Show Productions. Call: (714)558-8813.

November 26 Computer Super Shows. Riverside Convention Center. Super Show Productions. Call: (714)852-9267.

November 28–30 DV/CD-ROM Conference And Expo (Digital Video). New York. MHA Event Management. Call: 1-800-945-3313.

December

December 2 Computer Marketplace. Sherman Square Entertainment Center, Reseda. National Productions. Call: 1-800-800-5600.

December 2 Computer Super Shows. Glendale Civic Auditorium. Super Show Productions. Call: (714)852-9267.

NOVEMBER 18–19

Computer Marketplace

FAIRPLEX EXPO CENTER, POMONA

Produced by National Productions for over twelve years, Computer Marketplace covers more than 100,000 air conditioned square feet at the Fairplex Expo Center in Pomona. Over three hundred exhibits featuring the latest for sale at prices lower than retail. Find complete multimedia systems, notebook computers, modems, CD-ROM drives, printers, scanners, thousands of software titles for kids of all ages, and lots more. Free prize giveaways every hour. Come by and meet Jeff Levy of KFI Radio's *Computer Talk* and Lisa Osborne of KKLA's Information Network broadcasting live on Sunday. Open 10 am to 5 pm, admission is $7. Call 1-800-800-5600 or email *CMPlist@aol.com*.

DECEMBER 4–6

WebINNOVATION Summit

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Designed to empower leading industry professionals to take advantage of the best development tools available and to spur the creation of more compelling and differentiated content, WebINNOVATION is the first working summit for top Web content creators and application developers. Keynoted by Marc Andreessen, cofounder and VP of technology of Netscape Communications, the world's foremost experts will present new ideas, products, and technologies that will shape the future of the Web and enable attendees to attain even greater success in this quickly evolving industry. To learn more or register online, go to *http://www.vbc.com* or call 1-800-454-6878 or (415)391-1423.

NOTICE

This is our last calendar of events this year. Look for the next one in issue #146, January 3, 1996. Happy holidays!

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There is no other place where you can find such a huge inventory of computer products at low, wholesale prices! Hundreds of knowledgeable computer retailers and businesses each demonstrating their products and paying close attention to your needs.

November 18 & 19
Saturday & Sunday
POMONA Fairplex Expo Complex (LA Fairgrounds)
Exit Highway 10 at Fairplex Drive. Go north to McKinley Avenue, turn right. Turn left on White Avenue to Gate 14.

December 2
Saturday
RESEDA Sherman Square Entertainment Center
From the 101 Freeway take the Reseda offramp, go north to Sherman Way and turn right. Go one block to Canby Street. 18430 Sherman Way.

December 3
Sunday
BUENA PARK Sequoia Conference Center
Take the Beach Blvd. exit off the 91 Freeway. Go one block north to 7530 Orangethorpe.

December 9 & 10
Saturday & Sunday
POMONA Fairplex Expo Complex (LA Fairgrounds)

December 30 & 31
Saturday & Sunday
POMONA Fairplex Expo Complex (LA Fairgrounds)

The Technically Motivated Can Join the Computer Marketplace Mailing List by Sending E-mail to cmplist@aol.com

All Shows
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Nov. 25 CAL STATE NORTHRIDGE
Saturday 18000 Devonshire, Northridge
Dec. 16 CAL STATE NORTHRIDGE
Saturday 18000 Devonshire, Northridge
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Resources

Calendar Of Events *continued...*

December 2-7 DECUS '95 Extending the Distributed Enterprise Conference And Trade Show. San Francisco. Digital Equipment Computer Users Society. Contact: 1-800-DECUSS55 or information@decus.org.

December 3 Computer Marketplace. Sequoia Conference Center, Buena Park. National Productions. Call: 1-800-800-5600.

December 3 Computer Super Shows. Riverside Convention Center. Super Show Productions. Call: (714)852-9267.

December 5–7 Database And Client/Server World Conference And Expo. Chicago. DCI. Call: (508)470-3880.

December 9–10 Computer Marketplace. Fairplex Expo Center, Pomona. National Productions. Call: 1-800-800-5600.

December 11–15 ProjectWorld Conference And Expo. Santa Clara. Center for Management Research. Contact: (617)431-9797 or *adminpw@projectworld.com* .

December 15–17 Home And Family Computing Supershow. San Francisco. MPC Trade Shows. Call: (714)974-5252 or *mpcshows@aol.com* .

December 16–17 American Computer Mega Show. CSU, Northridge. American Mega Shows. Call: (818)961-3782.

December 21 Robert Austin Computer Show. Anaheim Stadium. Robert Austin Corp. Contact: 1-800-346-0100.

December 30–31 American Computer Mega Show. Carson Civic Center. American Mega Shows. Call: (818)961-3782.

December 30–31 Computer Marketplace. Fairplex Expo Center, Pomona. National Productions. Call: 1-800-800-5600.

January 1996

January 5–8 1996 International Winter Consumer Electronics Show. Las Vegas. Electronic Industries Association. Fax: (708)344-9018.

January 6 Robert Austin Computer Show. Anaheim Stadium. Robert Austin Corp. Call: 1-800-346-0100.

January 6–7 Computer Marketplace. Sherman Square Entertainment Center, Reseda. National Productions. Call: 1-800-800-5600.

January 16–18 COMDEX/PacRim Show. Vancouver, BC. SOFTBANK COMDEX Inc. Call: (617)449-6600.

January 17–20 Medicine Meets Virtual Reality IV Conference. San Diego. UCSD School of Medicine. Call: (619)751-8841.

January 21–23 Videomaker Expo. Burbank. *Videomaker* magazine. Call: (916)891-8410.

January 22–26 USENIX Technical Conference. San Diego. USENIX Association. Call: (714)588-8649.

January 27 Computer Marketplace. Earl Warren Showgrounds, Santa Barbara. National Productions. Call: 1-800-800-5600.

January 28 ACP Computer Swap Meet. Santa Ana. Super Show Productions. Call: (714)558-8813.

February

February 4 Computer Marketplace. Sequoia Conference Center, Buena Park. National Productions. Call: 1-800-800-5600.

February 27–29 New Media Expo. Los Angeles. SOFTBANK COMDEX Inc. Call: (617)449-6600.

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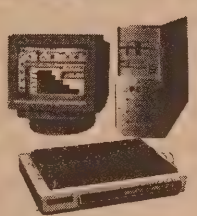

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FREE W/ FREE PARKING	Nov. 25 & 26 Sat/Sun	**RIVERSIDE** 3443 ORANGE ST., RIVERSIDE (CROSS STREETS ARE MARKET ST. AND 5TH STREET)	CONVENTION CENTER
FREE PARKING .50¢ PER HOUR	Dec. 2 Saturday	**GLENDALE** 1401 N. VERDUGO RD., GLENDALE (CROSS STREETS ARE MOUNTAIN ST. & VERDUGO ST.)	CIVIC AUDITORIUM
FREE W/ FREE PARKING	Dec. 3 Sunday	**RIVERSIDE** 3443 ORANGE ST., RIVERSIDE (CROSS STREETS ARE MARKET ST. AND 5TH STREET)	CONVENTION CENTER
FREE W/ FREE PARKING	Dec. 16 & 17 Sat/Sun	**ORANGE COUNTY** 88 Fair Drive, Costa Mesa (Take 55Frwy to Del Mar Exit, Take Del Mar to Fair Drive & Turn Right)	ORANGE COUNTY FAIRGROUNDS

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Resources

Calendar Of Events *continued...*

March

March 5–7 intermediaWORLD '95 Conference. San Francisco. Reed Exhibition Companies. Call: (203)840-5634.

March 19–23 Technology And Persons With Disabilities Conference. Los Angeles. CSUN Center on Disabilities. Call: (818)885-2578.

March 27 Second Annual Los Angeles Technology Venture Forum. Los Angeles. Economic Development Corporation. Call: (213)622-4300.

April

April 2–6 PC-Vietnam International Computing Trade Expo. Hanoi, Vietnam. Expo Corporation. Call: Alexander Glos, (407)851-7222 or *74204.2576@compuserve.com* .

April 11–12 Oak Ridge Conference: New And Advanced Technology For The Clinical Laboratory. San Jose. American Association for Clinical Chemistry. Call: 1-800-892-1400.

May

May 21–24 GlobalSoft Expo '96. Seattle, WA. GlobalSoft Expo. Call: Steve Hatch, (206)624-9743 or *rshatch@globalsoftexpo.com* .

June

June 9–13 17th Annual National Educational Computing Conference. Minneapolis, MN. ISTE. Call: (541)346-2834 or *NECC@oregon.uoregon.edu* .

June 11–14 Sixth International Conference On Computers In Agriculture. Cancun, Mexico. Call: Dr. Fedro S. Zazueta, (904)392-7260 or *fsz@gnv.ifas.ufl.edu* or *http://www.agen.ufl.edu/~fzazueta/* .

Classes, Seminars, Workshops

November

November 11 Intermediate Painter Seminar. Santa Monica. LAMG. Call: (310)319-1821.

November 11 Intro To The Internet Seminar. Santa Monica. LAMG. Call: (310)319-1821.

November 11 Photoshop Mastery Seminar. Long Beach. Solotech Design. Call: 1-800-662-5612.

November 11 & 18–19 Digital Imaging Using Adobe Photoshop Class. Santa Monica. UCLA Extension. Call: (310)825-9064.

November 11–19 Nonlinear Editing On The PC With D/Vision Pro Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

November 13 Doing Business On The Internet Seminar. Bakersfield. SkillPath Seminars. Call: 1-800-873-7545.

November 13–15 Imaging Filter Finesse With Bill Niffeneger Class. Los Angeles. American Film Institute. Call: (213)856-7690.

November 13–17 2-D Paint And Imaging Techniques Using Parallax Matador Class. Santa Monica. UCLA Extension. Call: (310)825-9064.

November 14 Doing Business On The Internet Seminar. Fresno. SkillPath Seminars. Call: 1-800-873-7545.

November 14 Introduction To The Internet Class. W. Los

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PCI Diamond Stealth Video 2MB/4MB V-RAM	$249/$429

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SB 16 IDE / ASP / SCSI	$69/89/99
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14.4 Modem / Voice	$50/55
28.8 Modem	$115
1.44FD / 1.2FD	$25/40
101KB / Keytronics 101	$13/22
Fujitsu / Focus 9000	$36/40
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Resources

Calendar Of Events *continued...*

Angeles/Costa Mesa. The Business Solution. Call: 1-800-333-8434.

November 14–December 12 Fundamentals Of AutoCAD: A Workshop. Los Angeles. UCLA Extension. Call: (310)825-9064.

November 15 Ins And Outs Of Nonlinear Storytelling Class. Los Angeles. American Film Institute. Call: (213)856-7690.

November 17–19 Interface Design Class. Los Angeles. American Film Institute. Call: (213)856-7690.

November 17–19 Photoshop Imaging Class. Los Angeles. American Film Institute. Call: (213)856-7690.

November 18 Beginning Mac Part 1 Seminar. Santa Monica. LAMG. Call: (310)319-1821.

November 18 Intro To Photoshop Seminar. Santa Monica. LAMG. Call: (310)319-1821.

November 18 QuarkXPress Mastery Seminar. Long Beach. Solotech Design. Call: 1-800-662-5612.

November 18 Surf The World Wide Web Seminar. Santa Monica. LAMG. Call: (310)319-1821.

November 18–19 Writing For Multimedia Class. Los Angeles. American Film Institute. Call: (213)856-7690.

November 21 Introduction To The Internet Class. W. Los Angeles/Costa Mesa. The Business Solution. Call: 1-800-333-8434.

November 28 Internet Class. Irvine. Computer Research Center. Call: (714)476-2333.

November 28 Introduction To The Internet Class. W. Los Angeles/Costa Mesa. The Business Solution. Call: 1-800-333-8434.

November 29 DeBabelizer Class. Los Angeles. American Film Institute. Call: (213)856-7690.

November 29 How To Start A Computer-Based Bookkeeping Business In Your Home Seminar. Thousand Oaks. Infinite Vision Systems. Call: (818)831-9895.

November 29 How To Start A Computer-Based Bookkeeping Business In Your Home Seminar. Westwood. Infinite Vision Systems. Call: (818)831-9895.

November 29–December 1 Multirate Digital Filters And Applications Class. Los Angeles. UCLA Extension. Call: (310)825-1047 or *mhenness@unex.ucla.edu* .

November 30–December 1 NetWare Basic Training Seminar. Anaheim. Center for Advanced Professional Development. Call: (714)261-0240.

December

December 1–2 How To Build A Fileserver Class. Irvine. Computer Research Center. Call: (714)476-2333.

December 1–3 Electric Image Class. Los Angeles. American Film Institute. Call: (213)856-7690.

December 1–16 Distributed Computing Using DCE Class. Los Angeles. UCLA Extension. Call: (310)825-4100.

December 2 How To Build And Maintain A Profitable Consulting Practice Seminar. Irvine. William Mooney Assoc. Call: (310)324-2386.

December 2 Quicken 1 And 2 Seminar. Thousand Oaks. Infinite Vision Systems. Call: (818)831-9895.

December 2–10 3-D Animation Using Wavefront Explore Class. Santa Monica. UCLA Extension. Call: (310)825-9064.

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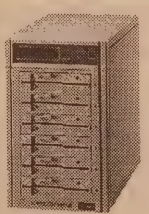

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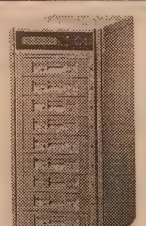

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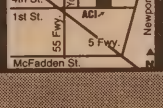

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December 4 Administration For NetWare 4.1 Class. Irvine. Wave Technologies International. Call: 1-800-711-0285.

December 4–6 Alternatives To HTML Class. Los Angeles. American Film Institute. Call: (213)856-7690.

December 4–7 3-D Animation Using Wavefront Explore Class. Santa Monica. UCLA Extension. Call: (310)825-9064.

December 4–8 Advanced Communication Systems Using Digital Signal Processing Class. Los Angeles. UCLA Extension. Call: (310)825-1047 or *mhenness@unex.ucla.edu* .

December 5 Before You Buy A Mac Seminar. Santa Monica. LAMG. Call: (310)319-1821.

December 5 Excel Tips And Tricks Seminar. Santa Monica. LAMG. Call: (310)319-1821.

December 5 NOW Up-To-Date/NOW Contact Seminar. Santa Monica. LAMG. Call: (310)319-1821.

December 9 Advanced Photoshop Seminar. Santa Monica. LAMG. Call: (310)319-1821.

December 9 Beginning Mac Part 2 Seminar. Santa Monica. LAMG. Call: (310)319-1821.

December 9 How To Start And Build A Full-Time Or Part-Time Computer Consulting Practice Seminar. Torrance. William Mooney Assoc. Call: (310)324-2386.

December 9 Intermediate Photoshop Seminar. Santa Monica. LAMG. Call: (310)319-1821.

December 11 Administration For NetWare 4.1 Class. W. Los Angeles. Wave Technologies International. Call: 1-800-711-0285.

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December 18 Administration For NetWare 3.1x Class. Irvine. Wave Technologies International. Call: 1-800-711-0285.

December 18–20 3-D Tools Class. Los Angeles. American Film Institute. Call: (213)856-7690.

December 27 Administration For NetWare 3.1x Class. West Los Angeles Wave Technologies International. Call: 1-800-711-0285.

January 1996

January 3 How To Start A Computer-Based Bookkeeping Business In Your Home Seminar. Westwood. Infinite Vision Systems. Call: (818)831-9895.

January 6–March 23 3-D Graphics Programming Techniques: Rendering Class. Los Angeles. UCLA Extension. Call: (310)825-3857.

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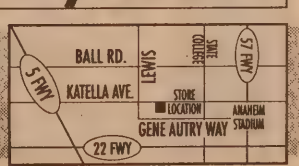

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ALTERNATE REALITIES

continued from page 182...

and "a lot can happen in that time. For example, there might be some changes in the costs of the development."

He has done impact analyses for a wide range of clients. The Gap hired him to create a photo simulation of a storefront in a Seattle mall. He's worked with the developers in Park City, Utah, and helped analyze a landscape restoration project at Sunshine Canyon in Pasadena. He also did an analysis of the controversial Marin County Buck Center for Research on Aging.

Harry is a neutral party in these productions. His job is simply to present the client, be it a contractor or an environmentalist, with as realistic a picture of the end results as possible. He also notes that changes to the landscape are not necessarily negative: "Until one goes and looks at these things closely, you can very easily come to the wrong conclusions. I worked on a project in Santa Cruz County some years ago. A man wanted to expand his quarry in the mountains outside Soquel. The locals were afraid that he was going to make a big mess of the mountain, but the net result was that, after analyzing the effects, the impact was nonexistent."

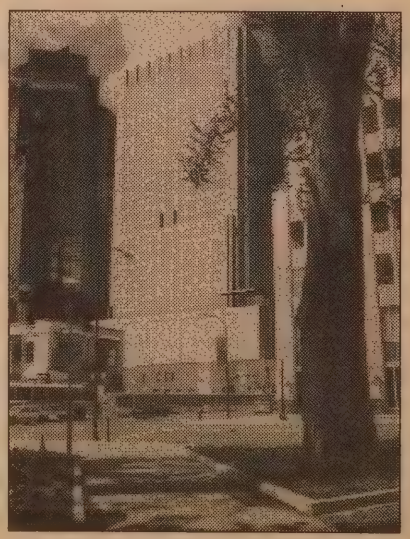
MEANWHILE, ON THE OTHER SIDE OF THE HOUSE

Prior to starting her own company in May of 1994, Juli worked as Harry's assistant at VIA. Though she still helps out answering phones, going with him on photo shoots, and doing the billing, her attentions are now focused on her multimedia company.

Her inspiration for the Family Dog screen saver came from her own collection of '60s psychedelic rock posters. "I was thinking how great those images would look on screen. We scanned some in, and they were very compelling. They had all the right combinations of graphics that showed up well digitally."

Back in the late '60s Juli worked for Bill Graham, so she had connections to the movers and shakers of that era. So when she came up with her screen saver idea, she contacted rock promoter Chet Helms, who holds the copyrights to the Family Dog posters, and acquired a licensing agreement to use the complete set of posters as the content in the screen saver.

The Benkes hired a photographer to take slides of all 160 Family Dog posters. The slides were then put onto PhotoCD. A winnowing-down process that took into account both visual content and floppy disk space brought the number of images down to thirty-three. "We picked what we thought were the best pictures, choosing recognizable images and color content, enough to keep it interesting but not so many as to exceed three disks," Juli says. Once the posters were selected, Harry went to work: "He adjusted the colors on ones that had faded; he cleaned up any frayed edges, and made them look exactly like they did originally."



Two programmers worked to create the actual engine that would put the images on screen: one on the Windows version and one on Macintosh. The finished programs are designed as a framework that allows any pictures to be inserted for screen display. The image display can easily be adjusted so that the

ALTERNATE REALITIES *continued...*

duration of each on-screen picture can be increased or decreased. Transitions between images can also be set to accommodate the viewer's preferences.

The Los Angeles Museum of Contemporary Art and San Francisco's MOMA recently started carrying the Rock and Roll Art screen saver in its gift shop. It can also be found at Tower Records, both in-store and through its online outlet, and online at CD Now and The Home Shopping Network Interactive. So far, the majority of the business has been mail-order, but Juli says that lately online sales have increased dramatically.

OTHER PROJECTS

The Rock and Roll Art screen saver is the first in a series of on-screen, rock and roll art presentations Juli is working on. She is collaborating with San Francisco poster artist Frank Kozik to produce a screen saver of his contemporary rock art. Kozik is known for his use of fluorescent, day-glo colors and childlike, Dick-and-Jane images juxtaposed against grotesque backgrounds of mayhem and kink.

From the moment she saw his posters, Juli knew she wanted to use Kozik's artwork in her screen saver series. "I thought the colors were so dramatic, so outstanding, that they would look beautiful digitized and on a computer screen. They lend themselves perfectly to this medium." She predicts a mid-November release for this project. "We're in the process of selecting the images now. We'll use some of his old standbys, some of his album covers, and also some current poster work... Frank is great because he does almost all of his work on the computer. He's very enthusiastic about the project. He's even going to design the box."

She is also working closely with psychedelic artist Stanley Mouse to create a screen saver using his early '60s monster car images and a second one using artwork from his book, *Freehand, the Art of Stanley Mouse.*

Another potential source of on-screen images Juli has been pursuing can be found in galleries and museums. She has been talking to people at San Francisco's MOMA, which has expressed interest in carrying a screen saver of various artworks it has on display.

The Benkes are working with Chris Jochumson on a new project that Harry describes as "an exciting new concept that will allow people to produce and distribute their own custom photo collections as a screen saver." Jochumson, best known for his *Where in the World Is Carmen Sandiego?*, wrote the Mac version of the screen saver.

RESOURCES:

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fax: (415)897-3373
VIA's voice phone is (415)897-5505
Julianne Multimedia, Inc. can be reached by voice phone at (415)892-0599, or through email at *julianne@julianne.com* .
Her Web page is *http://www.hooked.net/julianne.index.html* .

Harry and Juli, who have been married since 1974 and have a twenty-year-old son named Jasper, are seldom out of each other's sight. When asked how she felt about this nonstop togetherness, Juli jokingly rolls her eyes: "Well, we're not together 24 hours a day exactly," she laughed. "Sometimes he does errands." ■

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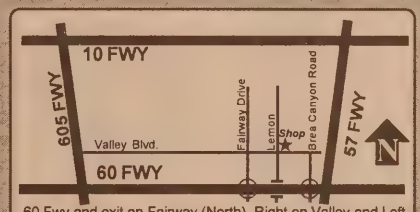

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Aussie BBS. (310)425-5710, 320-5000; (714)670-6500, 572-8800, 537-4300, 262-1200; (818)961-1700, 447-6100, 357-5005, 797-6400. 25 lines. TradeWars, MUDs, chat, files, Internet, FidoNet. Free trial. Sysop: Mike Szabados. [Exp. #143.]

The Crusader BBS. (213)466-4482, (310)348-9746. 14,400. Multiline. 12 CD-ROMs, Internet email, Usenet, chat, games, FidoNet, files. Sysop: Jack Farmer. [Exp. #143.]

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Mr. Wonderful's Lair. (213)261-8055, (818)451-0874. 24 hrs., up to 28,800. Internet, echomail, games, shareware, adult, 12 CDs. Free 14-day account. Sysop: Mr. Wonderful. [Exp. #147.]

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213

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310

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Chinese BBS. (310)402-5213. Japanese animation; Chinese, Oriental pop star GIFs; FidoNet; Chinese message network. Sysop: Denny Chuang. [Exp. #147.]

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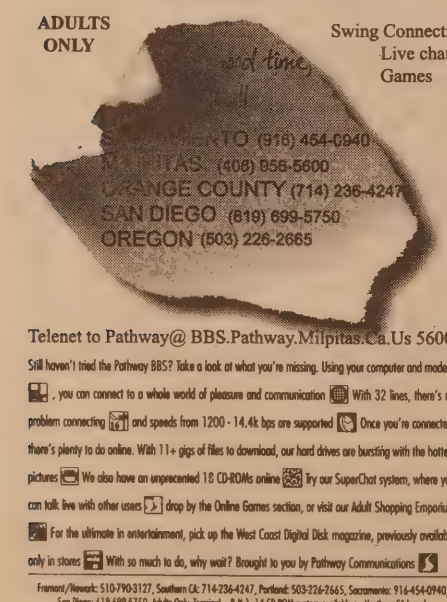
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Servant Christian BBS. (310)371-2770, 371-3130, 371-0251. TCP/IP: 204.140.218.4 . 24 hrs., 28,800. FirstClass, Mac and Windows. 6GB+, Internet. Christian area free, others fee. Administrator: Doug Wade. [Exp. #147.]

Southern California Computer Society. (310)926-6778. 8-N-1, 24 hrs., 14,400. New users welcome. Conversation, files. Seal Beach/Long Beach. $15/year. [Exp. #143.]

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XchangeNet. (310)452-3374. 8-N-1, 300–9600. All classified ads, all free, swapmeet of everything this side of Siberia. Sysop: Rex Brains. [Exp. #147.]

408

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714

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The Abyss BBS. (714)373-1575. 8-N-1, 300–14,400. WWIVnet, FidoNet echos, free Internet email, messages, transfer section, games, more. Sysop: Byte. [Exp. #146.]

Axolotl BBS. (714)748-9060. 8-N-1, 2 pm–7 am. Unusual topics, ship-size shareware, into-another-world doors. Free. [Exp. #147.]

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CompuRef, The SoCal Excursion. (714)855-2733. 8-N-1, 24 hrs., 14,400. Social BBS: featuring social events, public discussions, email, matchmaking, chat. Free. [Exp. #147.]

Computer Republic. (714)525-0738. 24 hrs., 9600–28,800. Working on bringing your online world together with 24-bit graphics. Free. [Exp. #147.]

Generation X BBS. (714)361-8521. 24 hrs. Excalibur Windows BBS, 12 CDs, games, chat, email, adult. Free/fee. Sysop: Dave Edmondson. [Exp. #147.]

HHG BBS. (714)459-2536, 459-2537. 24 hrs. 28,800. Fido, RIME, 20 doors, TradeWars, BRE, SRE, PIT, Usurper. Sysop: Dennis Mullins. [Exp. #143.]

The Hotline BBS. (714)774-5165. 8-N-1, 24 hrs., 14,400. 16 lines. Adult, chat, games, monthly social events. Sysop: Tom Williams. [Exp. #143.]

Instant Savings BBS. (714)693-8634. 24 hrs., 2400–28,800. Money-$aving coupons, free classified ads, soon Internet email. Free. [Exp. #143 .]

The Irvine "X"Change BBS. (714)552-0589. 8-N-1, 24 hrs., 28,800. S/w files, games, six CDs. Access first call, adult w/fee. Sysop: Richard Neilssien. [Exp. #143.]

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The Louvre. (714)535-1758, 535-1689. 8-N-1, 24 hrs., 2400–28,800. Games, files, CD-ROMs, messages, chat, many adult files. Ratio/fees for adult access. Sysop: Dr. Jest. [Exp. #143.]

The Mega Connection BBS. (714)744-5005. 8-N-1, 24 hrs., 2400–28,800. Multinode. Experience the online 24-bit graphics, 5GB+, free adult access. Sysop: Mazen Khoury. [Exp. #143 .]

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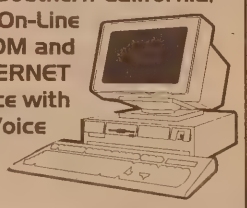
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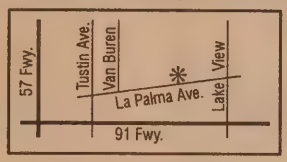

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Mission On-line. (714)258-0707. 24 hrs., 28,800. Internet email, RIP, CD library, forum for programmers and data processing professionals. Free. Sysop: Kurt Steffien. [Exp. #143.]

The Modem Express. (714)994-9502. Files, chat, Door games, games, FidoNet, friendly people. Sysop: Tim Leonard. [Exp. #146.]

Psykosis Online. (714)961-0181, 961-1048, 961-8673, 961-8474, 961-8475, 961-8365, 961-8366, 961-8367. 8-N-1, 24 hrs., 2400–19,200. Eight lines. FidoNet, Internet, newsgroups and email, games. Sysop: Dr. Chaos. [Exp. #143.]

Shoot The Moon BBS. (714)995-1004. 8-N-1, 24 hrs., 2400–14,400. Any computer, adult GIFs, Mac, PC. Always Free! [Exp. #143.]

Simply Real Estate BBS. (714)841-6941. 8-N-1, 24 hrs., 14,400. Real estate information and database of 400+ homes for sale in O.C. Free. Sysop: Timothy Tucker. [Exp. #143.]

Vicious Rumors BBS. (714)523-1010. 8-N-1, 24 hrs., 1200–28,800. 16 lines. Games, chat, CD-ROMs, 15GB+, adult files, 18+ only. Sysop: Mark, Lonnie. [Exp. #146.]

Write By Design BBS. (714)997-7049, 997-7056. 24 hrs. Gay/lesbian BBS featuring literary works, games, newsletter, clubs, dating. Fee. [Exp. #143.]

818

ABBS. (818)893-6350, telnet: aceweb.net . Adult, file library, SLIP, email, games, chat, full Internet access. [Exp. #147.]

Ace Station BBS. (818)891-0397, telnet: 204.140.129.1 . 24 hrs., 300–28,800. "Live" full Internet, SLIP, Windows interface, 330GB library, 500 CD-ROMs. [Exp. #147.]

Act III BBS. (818)701-6380, 701-6836, 701-9734, 701-9805. 24 hrs., 33,600. Internet IRChat/email; files; games; Fido, Dove message nets; more. Free/fee. Sysop: Rick Buttell. [Exp. #147.]

AEC-Online BBS. (818)360-7022, 360-3367. Windows shareware, AutoCAD utilities, games, more! Free Internet email, Windows BBS. [Exp. #143.]

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Beeline BBS. (818)752-1714. 24 hrs., 32 lines, chat and fun, large area with many numbers. Free trial. [Exp. #143.]

The Big "C" BBS—Cancer Support Board. (818)776-2780. 24 hrs. For cancer patients, their families, caregivers, friends, medical community. Free. [Exp. #146.]

Blazin' Bytes BBS. (818)776-2777. 16 lines. Chat, games, pubs/SIGs, files. Warm, family-style adult board. Sysop: Barbara Mallut. [Exp. #146.]

The Boat House BBS. (818)994-1627. 8-N-1, 24 hrs., 2400–14,400. FidoNet, RPGnet, Inter-BBS games, 5000+ files on CD-ROM. Free public access. Sysop: Mark Presley. [Exp. #146.]

Cafe Nebula. (818)985-7848, 985-7843. 24 hrs., 300–14,400. SF-oriented BBS, good conferences, files, doors. Limited free trial. [Exp. #146.]

David's Amazing Internet Services. (818)734-4800. 24 hrs., up to 28,800. Your friendly Internet provider. New number. Uncensored fun, 56K network connection. Sysop: David Dennis. [Exp. #146.]

Follow Your Heart—Heart Disease Support BBS. (818)776-2778. 24 hrs. For heart disease patients, their families, friends, caregivers, medical community. Free. [Exp. #146.]

The Galaxy-II BBS. (818)706-0130. 28,800. All gamers welcome. VGA Planets, LORD, Assassin, chat, more. Free trial. Sysop: Brett Tondreau. [Exp. #147.]

GVMUG BBS. (818)355-8656, 790-5426. 24 hrs., 9600. Mac user group. FirstClass and CLUI. Sysop: Bob. [Exp. #147.]

Ham*Info*Link*Source BBS. (818)584-1952. 8-N-1, 24 hrs., up to 14,400. Devoted to amateur radio, swl, dx, packet, news, exams/classes. Free. Sysop: KB6AXK. [Exp. #146.]

The Info-Tainment BBS. (818)718-1600. 24 hrs. 18 CD-ROMs, huge adult library, supporting all lifestyle choices. Free access available. Sysop: Don. [Exp. #143.]

InvestorLink. (818)331-4611. Daily and historical stock, commodity, mutual fund prices; real estate, currencies, companies. Sysop: Steve Painter. [Exp. #147.]

KTB Internet Online. (818)240-4000, 765-5221. 8-N-1, 24 hrs., up to 28,800. Internet access (WWW, FTP, IRC, Telnet, news), shell, PPP/SLIP, UUCP, files. Free trial. [Exp. #146.]

LabyrinthOnline. (818)449-0804. 8-N-1, 24 hrs., 14,400–28,800. Windows interface, live Internet, chat, games, CD library. Free trial. [Exp. #147.]

Miles Of Music BBS. (818)883-9975. 8-N-1, 24 hrs., 19,200. Rock music collectibles, band/club info, music pubs. Free access. [Exp. #146.]

Movers & Shakers—Parkinson's Disease Support BBS. (818)776-2784. 24 hrs. For Parkinson's Disease patients, caregivers, families, friends, medical community. Free. [Exp. #146.]

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My Board BBS. (818)347-7711, 789-1776. Full Internet, interactive games, chat, MatchMaker, 3GB of files. Free trial. Sysop: Anne Kingsbury. [Exp. #146.]

Mysteria. (818)353-8891. 24 hrs., up to 28,800. General board featuring metaphysics and occult. FidoNet. Free access available. Sysop: Phil Hansford. [Exp. #143.]

On The Bright Side—Agoraphobia Support Board. (818)776-2781. 24 hrs. For those with agoraphobia/panic disorders, families, caregivers, friends, medical community. Free. [Exp. #146.]

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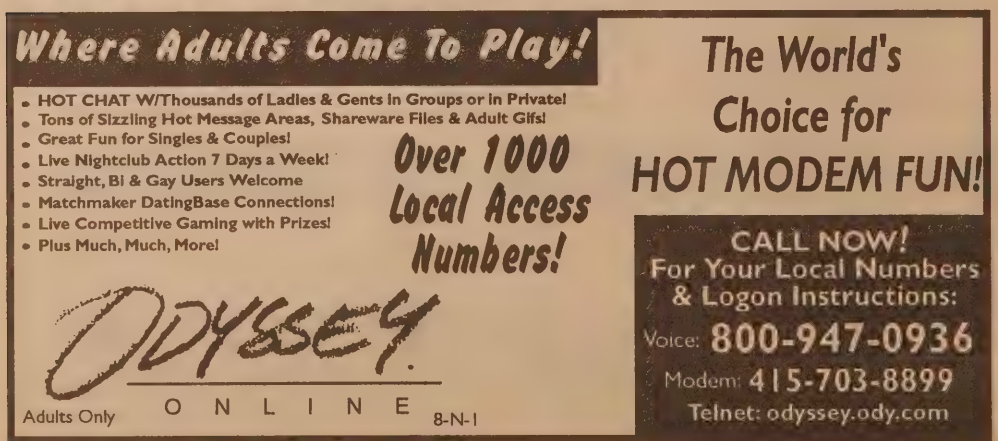
The Patchbay BBS. (818)683-0627. 8-N-1, 24 hrs., 28,800. Three lines. Windows and more. CICA CD online. Internetted. Free. Sysop: Dan Bise. [Exp. #147.]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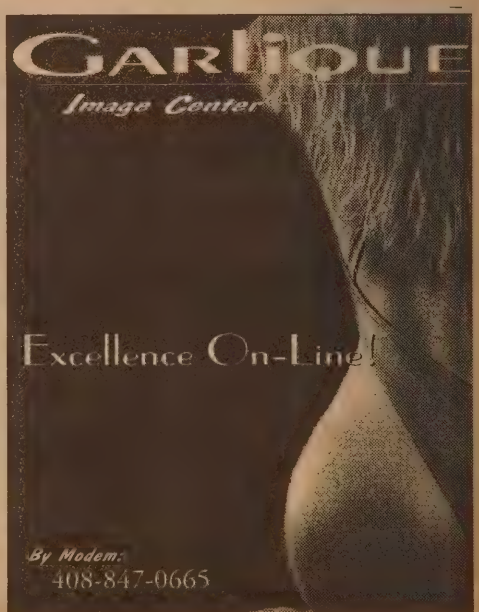

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BULLETIN BOARDS cont.

Solaris. (818)609-9276. 24 hrs., 1200–28,800. Instant validation. Internet. No ratios. 40+ online games. Free/donation. Sysop: Jim Burrows. [Exp. #143.]

SONiC Dreams. (818)831-6052. 8-N-1, 24 hrs., 1200–14,400. Tons of messages and files. Multinetted online games. BRE maniacs. No fee. [Exp. #143.]

Sugar Free BBS! Diabetes Support Board. (818)776-2779. 24 hrs. For those with diabetes, their families, friends, caregivers, medical community. Free. [Exp. #146.]

Under Construction BBS. (818)548-5844. 8-N-1, 24 hrs., 300–28,800. Building, construction forums; files for designers, home owners, architects, contractors. More. Free till 11/95. Sysop: Bill McGaughy. [Exp. #146.]

The World's Window. (818)830-6006. For customers of the Expedition Group: tech support, consulting info, drivers, more. Free. [Exp. #146.]

Wyrm BBS. (818)793-2426. 8-N-1, 24 hrs., 28,800. Files sorted by user ratings. Earn, free, or pay. Sysop: David Croft. [Exp. #143.]

Xtasy. (818)330-7596. 5+GB adult GIFs, AVIs; 3+GB shareware; fantasy sport leagues w/daily stats. [Exp. #147.]

909

The Berean University. (909)947-2278. 8-N-1, 24 hrs., 14,400. Christian, huge message and file base, games. All faiths welcome. Free. [Exp. #146.]

California Prime Line (CPL). (909)307-1344. 24 hrs., 14,400. 20 lines. One-stop family entertainment service. Free limited trial. Sysop: Shadow. [Exp. #146.]

Data Connection. (909)698-7257. 8-N-1, 24 hrs., 28,800. Multiline. Email, USA Today, weather, 20 CDs, adult areas. Fee. Sysop: Dennis Clark. [Exp. #146.]

Dragon's Lair BBS. (909)794-4340. 8-N-1, 24 hrs., 1200–14,400. CD-ROM, large file base, FidoNet, ICEnet, echos, messages, WWIV 4.24. Free access. Sysop: Hawkeye. [Exp. #146.]

The French Connection BBS. (909)428-7648. 24 hrs. Eight lines. California's largest adults-only BBS. View GIFs online in Windows. Sysop: Christopher Moss. [Exp. #147.]

Inland Sports BBS. (909)789-2978. 8-N-1, 24 hrs., 28,800. SoCal sports BBS and more! 78,000+ files, animated menus. Free. Sysop: Jim Charters. [Exp. #143.]

World Shopping Network. (909)549-8383. 24 hrs., 14,400–28,800. Shop for homes/autos/etc. View photos. Windows based. Free. [Exp. #146.]

USER GROUPS

AMIGA

Amiga Users Group Of Long Beach. Meetings: 1st Thurs., 7:00 pm, Fire Station Bldg., 5373 E. Second St., Belmont Shores. All persons with an interest in the Amiga computer welcome. Free. [Exp. #146.]

Amiga—San Gabriel Valley (ATUG). Meetings: last Tues., 7:00 pm, Michelangelo's Pizza, San Dimas; 3rd Sat., 11:00 am, 1st Southern Baptist Church, Temple City. Contact: Steve Ward, (818)285-6424. [Exp. #148.]

APPLE

Champions Of The Mac Proletariat (CHOMP). Meetings: 4th Thurs. (except Nov. 9), 7:00 pm, Cal Poly Pomona, CLA Bldg., Rm. P2-7, Pomona. Contact: Craig Richards (909)985-7385 or Mitch Cohen, (909)598-5766. [Exp. #147.]

Orange Apple Computer Club. Meetings: 1st Sat., 8:00 am, Chemistry Bldg., Orange Coast College, 2701 Fairview Rd., Costa Mesa. Apple II and Mac users, various SIGs. Contact: (714)770-1865, or S.W. Hosey (714)962-3893. [Exp. #147.]

Original Apple Corps. Meetings: 2nd Sun., West LA area. Apple II and Mac users group. Support for beginners through experts. Contact: Fred Duffy, (310)450-3336. [Exp. #148.]

ATARI

All Computer Association Of Orange County. Meetings: 2nd Sun., 1:00 pm, 12860 Euclid Ave., Garden Grove (next to Black Angus). Supporting Atari, Macintosh, PC, and other computer systems. Contact: (714)265-9357. [Exp. #146.]

ATESIG—Atari 8-Bit SIG. Meetings: 145 Surf Pl., Seal Beach. Cooperative user group for model railroad applications. Contact: (310)430-5433. [Exp. #147.]

South Bay All Computer Enthusiasts. Meetings: 4th Wed., 7:30 pm, Del Amo Savings Bank, 2177 Pacific Coast Hwy., Lomita (NE corner of PCH and Narbonne). Open to anyone who would like computer-related assistance or to those who have skills or interests to contribute. Contact: Danny or Mary, (310)834-4052. [Exp. #147.]

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USER GROUPS cont...

CHLB—Commodore Helpers of Long Beach. Meetings: 2nd Sat., 9:00 am., Community Presbyterian Church, 6380 Orange Ave., Long Beach. Newsletter, large library, monthly disks. Contact: Herb, (310)429-8998. [Exp. #143.]

Orange County Commodore Club. Meetings: 4th Sat., 11:00 am, Costa Mesa Public Library, 1855 Park Ave., Costa Mesa. Contact: Mike Moore, (714)668-9715. [Exp. #146.]

South Bay Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, So. Cal. Edison Generating Station, 1100 Harbor Dr. (across from King Yacht Harbor), Redondo Beach. Contact: Dorothy, (310)323-9265. [Exp. #143.]

DESKTOP PUBLISHING

Orange County Corel DRAW/Ventura Users' Group. Meetings: 2nd Wed., Graphix Zone, 38 Corporate Park, Irvine. Contact: Marge Packman, (714)798-1230 or *mpackman@cisco.com* . [Exp. #146.]

Orange County FrameMaker Users Network (OCFUN). Meetings: varying Thurs., 6:00 pm, LearnSoft, 4590 MacArthur Blvd., Suite 350, Irvine. Contact: Marge Packman, (714)798-1230 or *mpackman@cisco.com* . [Exp. #147.]

IBM AND COMPATIBLES

All Computer Association Of Orange County. Meetings: 2nd Sun., 1:00 pm, 12860 Euclid Ave., Garden Grove (next to Black Angus). Supporting Atari, Macintosh, PC, and other computer systems. Contact: (714)265-9357. [Exp. #146.]

Channel Islands PC User Group. Meetings: 1st Sat., 9:30 am, Freedom Center, 515 Eubanks St., Camarillo (at Camarillo airport). Covers DOS, Windows, OS/2. Visitors welcome, no charge, PO Box 5025, Oxnard, CA 93031. Contact: *dviolini@rain.org* . [Exp. #146.]

Greater South Bay PC Users Group. Meetings: 2nd Thurs., 7:30 pm, Torrance Recreation Center, behind Torrance main library. Contact: (310)335-2799. [Exp. #146.]

Long Beach IBM PC And Compatibles Users Group. Meetings: 3rd Wed., 7:00 pm, Masonic Temple, 5155 E. Pacific Coast Hwy., Long Beach. Novice and experienced welcome, BBS, public domain library, newsletter, SIGs. $25/year, $35 for families. Contact: Jim Wells, (310)439-7114. [Exp. #146.]

Los Angeles Computer Society. Meetings: 2nd Tues., 7:00 pm, Robert Frost Auditorium, Culver City High School, 4401 Elenda St., Culver City. Vendor presentations, free software, special interest groups, BBS. Contact: (310)471-2726. [Exp. #143.]

Microsoft Foundation Classes User's Group. Meetings: 2nd and 4th Tues., 6:30 pm, 201 W. Hilliard Ave., Monterey Park. Contact: Fook H. Eng, (818)572-9220. [Exp. #146.]

Orange Coast IBM PC User Group. 1520 Brookhollow, Suite 38, Santa Ana. Speakers, BBS, software library, newsletter, and SIGs. Everyone welcome. Contact: (714)662-2939. [Exp. #143.]

Orange County IBM PC Users Group. Meetings: 2nd Tues., 6:30 pm. Speakers, software, newsletter, BBS. Open to public, all welcome. Contact: (714)990-0580. [Exp. #146.]

Pasadena IBM Users Group. Meetings: 3rd Wed., 7:00 pm, 2184 N. Lake Ave., Altadena. Speakers on hardware/software, demonstrations, SIGs, library, newsletter, and BBS. Call: Steve Bass, (818)791-1300. [Exp. #148.]

South Bay All Computer Enthusiasts. Meetings: 4th Wed., 7:30 pm, Del Amo Savings Bank, 2177 Pacific Coast Hwy., Lomita (NE corner of PCH and Narbonne). Open to anyone who would like computer-related assistance or to those who have skills or interests to contribute. Contact: Danny or Mary, (310)834-4052. [Exp. #147.]

Southern California Computer Society. Meetings: 4th Tues., 7:00 pm, Farmers & Merchants Bank, Community Room,12535 Seal Beach Blvd., Seal Beach. We welcome all who are interested in IBM and compatible computers; BBS and newsletter. $15/yr. Contact: Jim Perry, (310)429-3060. [Exp. #146.]

Thousand Oaks Personal Computer Club (TOPCC). Meetings: 4th Thurs. (3rd in Nov. and Dec.), 6:30 pm, Goebel Senior Center, 1385 E. Janss Rd., Thousand Oaks. Programs are targeted at novice to expert levels of computer knowledge.

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- 101 Enhanced Keyboard
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USER GROUPS

Contact: Harry Isaman, (805)495-8325 or Eli Spater, (805)496-8053. [Exp. #147.]

Tug-Net. Meetings: 1st four Thurs., 7:00 pm, Glendale Federal Bank, 7119 Topanga Canyon Blvd., Canoga Park. Visitors free. Ample parking. Contact: (818)249-1629 or 884-9441. [Exp. #147.]

Valley Computer Club. Meetings: 1st Wed., 7:00 pm, Burbank Board of Realtors Bldg., rear entrance, 2006 W. Magnolia, Burbank. BBS, PD library, SIGs, newsletter. All welcome. Contact: Estella McClintock, (818)848-1948; or Grayce Hruda, (818)842-3707 [Exp. #147.]

Valley IBM Compatible Users Group (VICUG). Meetings: 3rd Fri., 7:00 pm, Glendale Federal Bank community room, 7119 Topanga Canyon Blvd., 1/2 block south of Sherman Way. Free parking south side lot. Contact: Harry Tischler, (818)772-6000. [Exp. #148.]

KAYPRO

KAYOS Kaypro User Group. Meetings: 4th Tues. of even months, 6:00 pm, El Segundo Library, Mariposa and Richmond streets. Contact: (310)379-8339. [Exp. #146.]

MACINTOSH

All Computer Association Of Orange County. Meetings: 2nd Sun., 1:00 pm, 12860 Euclid Ave., Garden Grove (next to Black Angus). Supporting Atari, Macintosh, PC, and other computer systems. Contact: (714)265-9357. [Exp. #146.]

Champions Of The Mac Proletariat (CHOMP). Meetings: 4th Thurs., 7:00 pm, Cal Poly Pomona, CLA Bldg., Rm. P2-7, Pomona. Contact: Craig Richards, (909)985-7385 or Mitch Cohen, (909)598-5766. [Exp. #146.]

Long Beach Chapter Of LAMG. Meetings: 1st Tues., 6:00 pm, Signal Hill Elementary School Auditorium, 2285 Walnut, Signal Hill. Presentations, Q&A, diverse group of new and experienced Macintosh users. Contact: Roger Kroll, (310)433-9818. [Exp. #146.]

Los Angeles Macintosh Group (LAMG). Meetings: 3rd Thurs., 7:30 pm, Santa Monica High School's Barnum Hall, 601 Pico Blvd., Santa Monica. Vendor presentations, 25+ SIGs, seminars, BBS, monthly magazine. Guests welcome. Contact: (310)319-1821. [Exp. #147.]

Orange Apple Computer Club. Meetings: 1st Sat., 8:00 am, Chemistry Bldg., Orange Coast College, 2701 Fairview Rd., Costa Mesa. Apple II and Mac users. Various SIGs. Contact: (714)770-1865 or S.W. Hosey (714)962-3893. [Exp. #147.]

Original Apple Corps. Meetings: 2nd Sun., West LA area. Apple II and Mac user group. Support for beginners through experts. Contact: Fred Duffy, (310)450-3336. [Exp. #148.]

QMUG/LA, The Lesbian, Gay, Bisexual Macintosh User's Group. Meetings: 2nd Mon., 7:30 pm, Los Angeles Gay and Lesbian Community Services Center, 1625 N. Schrader Blvd., Los Angeles. Social, business, and technical network for lesbian, gay, and bisexual Mac users. Contact: (213)222-7684 or *QMUG-LA@pop.com* [Exp. #146.]

San Gabriel Valley Mac Users Group. Meetings: 1st Thurs., 7:00 pm, auditorium of Pasadena City Library, 285 E. Walnut St., Pasadena. Speakers, Q&A, drawings, PD library, newsletter, BBS, SIGs. All skill levels. Contact: Bob or Mo, (818)790-0913. [Exp. #148.]

South Bay All Computer Enthusiasts. Meetings: 4th Wed., 7:30 pm, Del Amo Savings Bank, 2177 Pacific Coast Hwy., Lomita (NE corner of PCH and Narbonne). Open to anyone who would like computer-related assistance or to those who have skills or interests to contribute. Contact: Danny or Mary, (310)834-4052. [Exp. #147.]

South Bay Apple Mac User Group. Meetings: Last Wed., 8:00 pm, Knob Hill Community Center, 320 Knob Hill, Redondo Beach. Newsletter, PD library, demos, and raffles. Contact: (310)644-3315. [Exp. #146.]

MULTIMEDIA

Macromedia Director SIG. Meetings: last Mon., 7:00 pm, LAMG Resource Center, 1640 5th St., #220, Santa Monica. If you're new to Director, this group is for you! Contact: (213)662-6666, email *rickyjj@aol.com* . [Exp. #148.]

Strictly Lingo User Group. Meetings: first Wed., 7:30 pm, Multimedia Workshop, 11835 West Olympic Blvd., Suite 435, W. Los Angeles. Open to people interested in Macromedia Director's Lingo authoring language. Contact: (213)662-6666, email *rickyjj@aol.com* [Exp. #148.]

NETWORKING

Los Angeles NetWare Users Group (LANet). Meetings: 4th Tues., 6:30 pm, Novell, 11300 W. Olympic Blvd. at Sawtelle, 9th Floor, West LA. Vendor presentations and open forum. Contact: LANet, 1-800-60-LANET. [Exp. #146.]

OCNET—Orange County NetWare Users Group. Meetings: 2nd Tues. 6:30 pm and 4th Tues. 11:00 am, Novell, 18101 Von Karman, Suite 500, Irvine. Specializes in Novell NetWare solutions. Contact: 1-800-532-7268. [Exp. #143.]

OS/2

Southern California OS/2 User Group (SCOUG). Meetings: 3rd Sat., 9:00 am, Exchanging information and providing mutual assistance to others about OS/2 Warp. Free. Contact: Bert Langer, (714)730-5221. [Exp. #147.]

PARADOX

Orange Co. Chapter, LA Paradox User's Group (LAPALs). Meetings: 3rd Wed., 7:00 pm, Newport Beach Fire Dept., 475 32nd St., Newport Beach. Presentations, Q&A, etc. for Paradox (DOS/Windows) users and developers. Contact: Glenn Jones, (310)490-2092. [Exp. #147.]

TANDY

San Gabriel Valley Tandy User's Group. Meetings: 2nd Fri., 7:00 pm, Arcadia Park Senior Citizen's Center, 405 S. Santa Anita Ave., Arcadia. Support for Tandy and IBM compatibles, BBS, newsletter, RAM session. Contact: Jack Nock, (818)578-0411. [Exp. #147.]

WINDOWS

WINNERS—WINdows usERS. Meetings: 2nd Sat., 9:00 am, Orange Coast College Fine Arts #116, 2701 Fairview, Costa Mesa. Great speakers, help for Windows and Windows applications. Beginners, experts welcomed. Contact: (714)542-0468. [Exp. #148.]

Is Your Listing Missing?

Free user group and association listings are limited to the group's name, meeting information, contact name and phone number, and a ten-word description. They will be **deleted at six-month intervals** to ensure timeliness and accuracy of information.

Free BBS listings are limited to the board's name, phone number, hours, baud rates, parameters, and a ten-word description. Please let our readers know if your BBS is free or requires a fee. Because we have an ongoing problem of boards shutting down without telling us, much to the annoyance of would-be callers and the new phone number's owner alike, we will **delete these listings after they've run three months.** The notice at the end of the listing—Exp. #xxx—refers to the last issue number it will appear in unless renewed.

You can update or renew your listings at any time. If yours is missing, send your listing information to: US Mail should go to: MicroTimes User Group, 3470 Buskirk Ave., Pleasant Hill, CA 94523. **Faxes** are welcome at (510)934-3958. **Email** can be sent to: JohnDownen@aol.com or MCI:MICROTIMES.

ASSOCIATIONS

Society For Technical Communication, Orange County Chapter. A nonprofit organization dedicated to providing educational programs and networking opportunities in technical communication. Call: (714)863-7666. [Exp. #142.]

Software Council Of Southern California. Meetings: usually 4th Wed., 6:00 pm, Long Beach Marriott, main ballroom, 4700 Airport Plaza Dr.; also breakfasts and luncheons around SoCal. A nonprofit trade association whose membership is comprised of software development organizations, as well as companies providing support and services to the local software industry. Call: Bill Manassero, (310)328-0043. [Exp. #144.]

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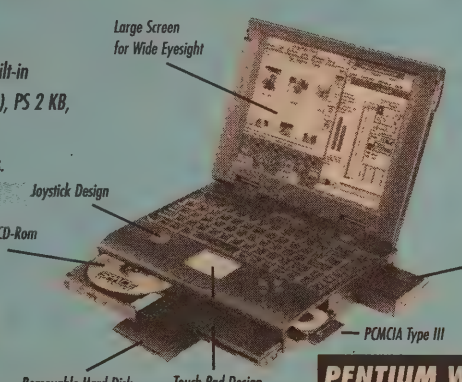

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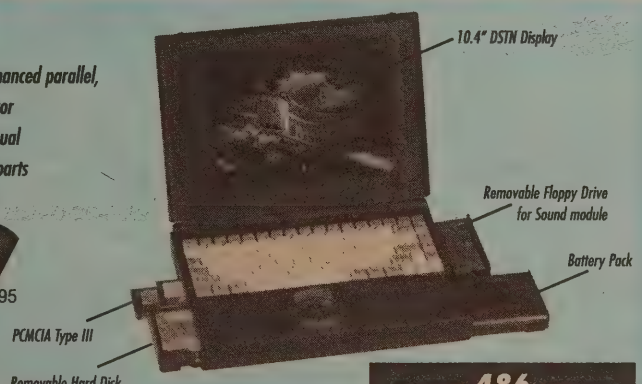

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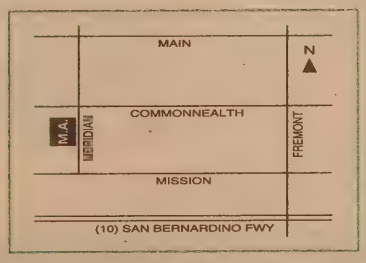

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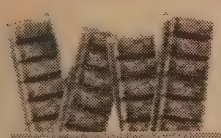

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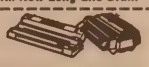

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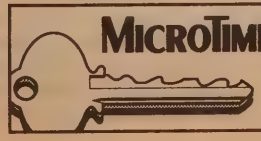

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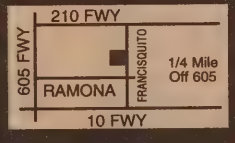

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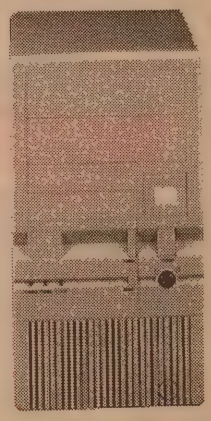

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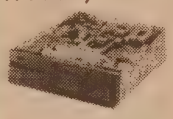

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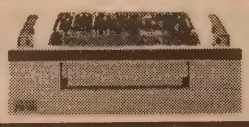

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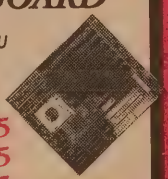

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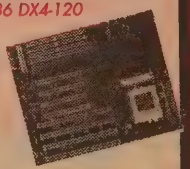

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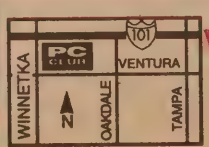

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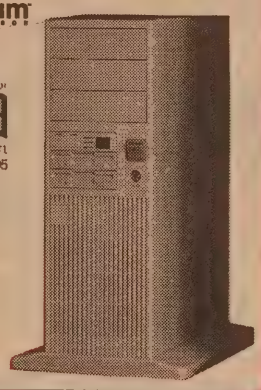

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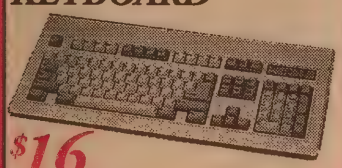

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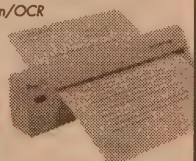

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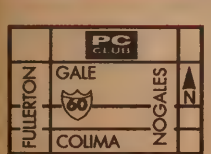

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Adaptek 2940 PCI Wide	$219
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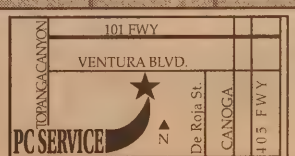

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Pentium-75	Please call for best price. We'll beat any advertised price!	
Pentium-90		
Pentium-100		
Pentium-120		
Pentium-133		

Pentium Soundbook

B·I·T

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Pentium-90	$2250	$2575
Pentium-100	$2325	$2650

* Intel Pentium processor
* Max.32 MB RAM
* 1.44 MB floppy drive
* PCMCIA Type 4 slot
* Removable hard drive
* 16-bit sound card, speaker and microphone
* 32-bit graphic accelerator
* 1 MB video memory
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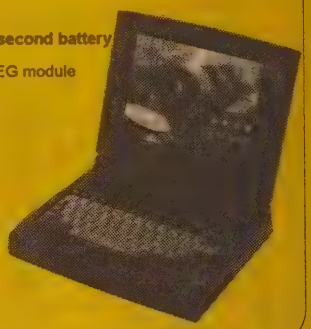
* Optional Docking station, MPEG module
* AC adapter & carrying bag



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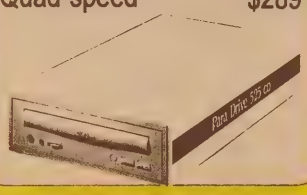

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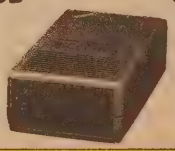

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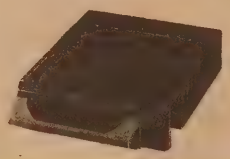

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* PCMCIA 14.4 FAX/Modem	$119
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* PCMCIA Ethernet combo	$149
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* 2.5" 540 MB hard drive	$289
* 2.5" 810 MB hard drive	$429
* 2.5" 1.3 GB hard drive	$589

Pocket Plug & Play HD

Connects to parallel port
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Supports DOS & Windows 95
Uses 2.5" hard drive
Free carrying bag

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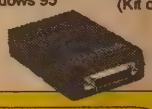

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* 7 lbs. with battery & CD ROM
* Optional Docking station, MPEG module
* Universal AC adapter & deluxe carrying bag

Pentium Soundbook

8 MB,520 MB	Dual Scan 10.3" Color	Active TFT 10.2" Color
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Pentium-90	$2250	$2475
Pentium-100	$2325	$2550

* Intel CPU
* 128K cache (486)
* 256K cache (Pentium)
* Max.36 MB RAM
* 1.44 MB floppy drive
* PCMCIA Type 4 slot
* Removable hard drive
* 16-bit sound card, speaker and microphone
* 32-bit graphic accelerator
* 1 MB video memory
* Big 25mm trackball
* 2 NiMH battery w/hot swap
* 1 16550 serial port (486)
* 2 16550 serial port (Pentium)
* AC adapter & carrying bag

486 Soundbook

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486DX4-100	$1750	$2000

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* Flat screen, Digital control, Low-radiation
* 2 high speed serial, parallel, & game ports
* Enhanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse
* **Sound Blaster 16**
* **Quad-speed (4X) CD-ROM drive**
* **140 Watt Hi-Fi speakers**

P-133 MHz	$2329
P-120 MHz	$2129
P-100 MHz	$2079
P-90 MHz	$2029
P-75 MHz	$1939

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* 2 high speed serial, parallel, & game ports
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* Medium tower case w/**300 Watt**
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* **Sound Blaster AWE 32**
* **Super fast 6X CD-ROM drive**
* **140 Watt Hi-Fi speakers**
* **Super Woofer for bass enhancement**

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* **PCI Enhanced IDE HD controller**
* **ATI Mach 64 or Stealth 64 w/2 MB VRAM**
* **MAG 17" 1280 X 1024 NI monitor .26 dp**
* Flat screen, Digital control, Low-radiation
* 2 high speed serial, parallel, & game ports
* Enhanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse
* **Sound Blaster AWE 32**
* **Super fast 6X CD-ROM drive**
* **160 Watt Hi-Fi speakers w/DSP**

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P-120 MHz	$2829
P-100 MHz	$2779
P-90 MHz	$2729
P-75 MHz	$2639

PENTIUM MULTIMEDIA

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* **Proton 15" 1280 X 1024 NI monitor .28 dp**
* Flat screen, Digital control, Low-radiation
* 2 high speed serial, parallel, & game ports
* Enhanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse
* **Sound Blaster 16**
* **Quad-speed (4X) CD-ROM drive**
* **140 Watt Hi-Fi speakers**

Best Buy

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P-120 MHz	$1749
P-100 MHz	$1679
P-90 MHz	$1629
P-75 MHz	$1539

PENTIUM WORKSTATION

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P-120 MHz	$1399
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P-90 MHz	$1279
P-75 MHz	$1189

* INTEL Pentium processor w/cooling fan
* **256K Cache, Intel Triton chipset**
* **8 MB RAM expandable to 128 MB**
* TEAC 1.44 MB floppy drive
* **635 MB EIDE hard drive**
* **PCI Enhanced IDE HD controller**
* **PCI graphic accelerator w/1 MB**
* **Proton 14" 1024 X 768 monitor .28 dp**
* **Non-interlaced, energy saving**
* 2 high speed serial, parallel, & game ports
* Enhanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse

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DX4-120 MHz	$1039
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* **256K Cache, CPU cooling fan**
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* TEAC 1.44 MB floppy drive
* **635 MB EIDE hard drive**
* **32-bit Enhanced IDE HD controller**
* **32-bit graphic accelerator w/1 MB**
* **Proton 14" 1024 X 768 monitor .28 dp**
* **Non-interlaced, energy saving**
* 2 high speed serial, parallel, & game ports
* Enhanced 101 key keyboard
* Mini tower case w/230 Watt
* High resolution mouse

486 MULTIMEDIA

* INTEL pentium-overdrive ready
* CPU cooling fan
* **256K Cache**
* **8 MB RAM expandable to 128 MB**
* TEAC 1.44 MB floppy drive
* **635 MB EIDE hard drive**
* **32-bit Enhanced IDE HD controller**
* **32-bit graphic accelerator w/1 MB**
* **Proton 14" 1024 X 768 monitor .28 dp**
* **Non-interlaced, energy saving**
* 2 high speed serial, parallel, & game ports
* Enhanced 101 key keyboard
* Medium tower case w/230 Watt
* High resolution mouse
* **Sound Blaster 16**
* **Double-speed (2X) CD-ROM drive**
* **140 Watt Hi-Fi stereo speakers**

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DX4-100 MHz	$1189
DX2-66 MHz	$1149

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* Medium Tower case w/230W PS	$60	* ATI mach 64 PCI w/2MB DRAM	$179	* Sound Blaster AWE 32 (OEM)	$159	* 14.4 Kbps int. Fax/Modem w/Voice	$59
* Full Tower case w/230W PS	$80	* ATI mach 64 PCI w/2MB VRAM	$259	* Sound Blaster AWE 32 (Retail)	$259	* 28.8 Kbps int. Fax/Modem	$129
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*	****	* Stealth SE PCI w/2MB DRAM	$139	* Toshiba 4X IDE CD-ROM	$159	* Maxtech 28.8 int. Fax/Modem	$159
* Pentium Triton MB 75-133 /256K	$170	* Stealth 64 video PCI w/1MB DRAM	$139	* Aztech 6X IDE CD-ROM	$199	*	****
* Intel Zappa /256K	$230	* Stealth 64 video PCI w/2MB DRAM	$189	* Teac 6X IDE CD-ROM	$239	* DOS 6.22	$45
* Intel Endeavor /0K/16-bit sound	$240	* Stealth 64 video PCI w/2MB VRAM	$259	* Toshiba 6X SCSI CD-ROM	$329	* Windows 3.1	$65
* Intel Endeavor /256K P-Burst /sound	$320	* Stealth 64 video PCI w/4MB VRAM	$439	* NEC 6X SCSI CD-ROM	$329	* DOS 6.22/Windows for Wkgp 3.11	$100
* 486DX2/4 VLB MB w/256K	$110	*	****	*	****	* Windows 95 (Full version - CD)	$100
* 486DX2/4 PCI MB w/IDE, I/O /256K	$130	* Proton 14" SVGA, NI, .28	$235	* Conner 420MB backup w/tape	$139	* Windows 95 (Full version - disk)	$110
*	****	* Proton 15" SVGA, NI, .28, Digital	$315	* Conner 800MB backup w/tape	$179	* **(OS are sold with systems only)**	****
* WD 630 MB hard drive	$175	* Proton 15" w/Audio, .28, Digital	$345	* Conner 1.7GB backup w/tape	$269	*	****
* Conner 850 MB hard drive	$200	* Proton 17" w/Audio, .28, Digital	$615	* Conner 4GB IDE backup w/tape	$529	* Ethernet 16-bit NE2000 jumperless combo	$35
* Maxtor 850 MB hard drive	$200	* MAG DX-15F 15", .28, Digital	$345	* Conner 4GB SCSI backup w/tape	$549	* Kingston PCI NE2000 jumperless (RJ-45)	$79
* WD 850 MB hard drive	$200	* MAG DX-17F 17", .26, Digital	$635	* Colorado T1000 800MB backup	$169	* Kingston PCI NE2000 jumperless combo	$89
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DVORAK'S LAST COLUMN • BY JOHN C. DVORAK

Urban Humor

or

Get Your Free Jokes Off The Internet

Who says the liberal arts are useless? Apparently that old Alan Dundes Folklore class at Cal Berkeley has paid off for me.

Yes, I'm at it again. Lifting jokes off the Internet and putting them in print. This is called Folklore documentation. There is funny material out there and somebody has to collect it. My basket of Internet Urban Folklore is full and I thought I'd dump some off here. I'm making room for the OJ Simpson jokes being posted as I write this.

I managed to find a group of Windows 95 and Microsoft thematic jokes and comments. From George Bigham comes this comment that has been circulating:

"Folks, knowing that Mac Excel is VERY sluggish compared to its Windows sibling, here is a creative work-around suggested by Dreux St. Marie, of the Houston Apple office:

1. Buy a PowerMac 9500

2. Buy and Install the new SoftWindows v2.0 (emulates about a 486 DX/66 running Windows 3.X)

3. Buy and Install Microsoft Office V.4.30 for Windows

4. Launch Windows

5. Double-click on the MS Office Program Group Icon

6. Start your clock!

7. Double-click on the Excel program item icon. There is a possibility that non-Mac people will find this solution a little unlikely :)

Then let's not forget the Top Ten Stones Songs for Win 95. This was one of the most popular postings on the net just before the Win 95 rollout. Whoever wrote it should be publicly applauded. It's not easy to make these lists funny.

Top 10 Rolling Stones songs that would be more appropriate than "Start Me Up" for the Windows 95 commercial

10. Just My Imagination

9. I'm Going Down

8. Let It Bleed

7. Gimme Shelter

6. Bitch

5. Shattered

4. Play With Fire

3. (I can't get no) Satisfaction

2. You Can't Always Get What You Want and the number one.. one.. appropriate song..

1. 19th Nervous Breakdown

Excellent list. One thing that keeps showing up on the net are fake news stories about Microsoft. Here's a recent one that floated around.

MICROSOFT TESTER DIES TRAGICALLY AT HANDS OF "PAL"

REDMOND, WA -

The Microsoft Redmond Campus was rocked by tragedy today as Paul Fitzgerald, Test Engineer on the Windows NT Team, was brutally murdered in an apparently psychotic tirade by one of the "personalities" of Microsoft's latest operating system shell program, Bob. In the small hours of this morning, Java, the "friendly" coffee-drinking dinosaur, burst from the screen of Fitzgerald's computer, cutting a swath of destruction throughout the hapless worker's office and into the accompanying hallway.

The beast was quickly subdued by Microsoft Campus Security upon failing to produce a valid Microsoft keycard, avoiding what could otherwise have been a tragedy of much greater proportions. He is currently undergoing psychiatric evaluation at the Washington Institute for Perfectly Valid Lifeforms Who in the Heat of the Moment Do Some Absolutely Naughty Things. Says Lars Opstad, chief spiritual healer and concert pianist, "It's touch and go right now. I don't think Java yet realizes the immensity of what he's done."

Eyewitnesses say that they could hear the stegosaur-like computer guide screaming "All I wanted was a GOOD espresso" in those terrible moments before dawn. Said Rover Retriever, another Bob personality, "This is just terrible. Java was always such a great guy. Sure, he was a little high strung, but I can't believe he would do something like this. I think we need to seriously reexamine the stress that the Bob Personality group is under so that another such incident doesn't occur."

A possible precipitant to the incident could be Java's recent attempt to quit smoking as a result of a clause in his contract. Lawyers are examining whether this constitutes a violation of discriminatory hiring statutes on Microsoft's part. Microsoft Legal could not be reached for comment, but an undisclosed source asserted, "We couldn't have him puffing away like that. He's a dinosaur, not a dragon. It would confuse the market."

Coroner's reports say Fitzgerald died instantly of cardiac arrest, but are unclear on whether this was a result of the vicious attack or the fact that Bob installed successfully on NT.

Finally, this:

WOMAN CALLING TALK SHOW: "Do I need, um, a computer to use Windows 95?"

TALK SHOW HOST: "You'll have less trouble with Windows 95 without a computer than with one!!"

...and so it goes. ■

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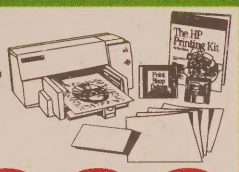

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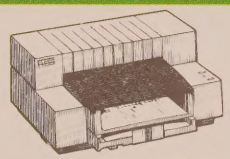

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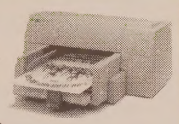

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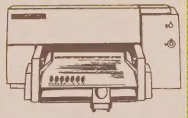

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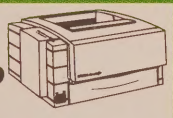

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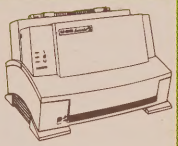

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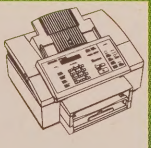

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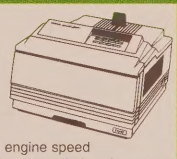

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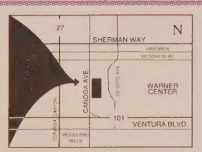

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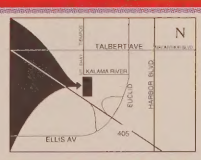

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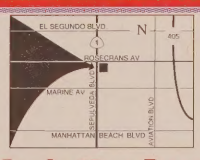

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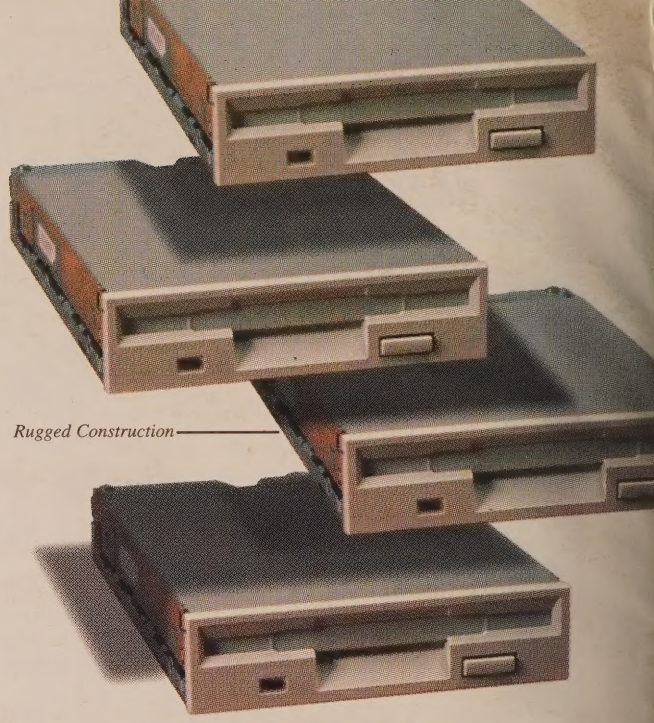

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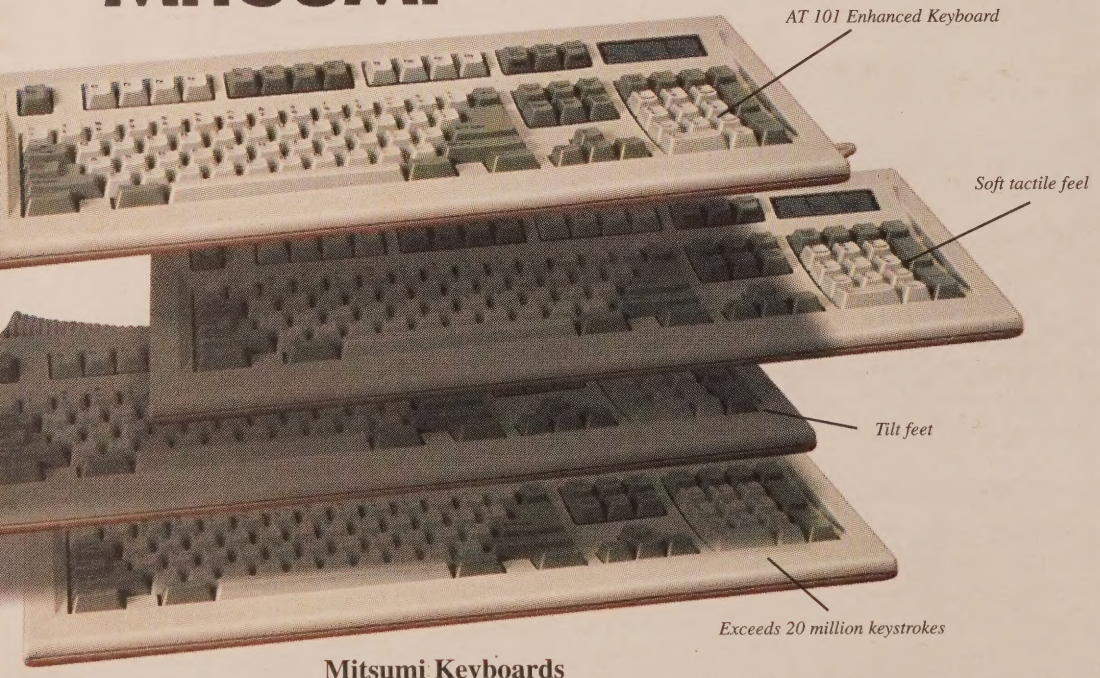

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